PIONEER' The Art of Entertainment

Service Manual

DEH-59/UC



ORDER NO. CRT1809

UC

HIGH POWER CD PLAYER WITH FM/AM TUNER

DEH-525 DEH-425 DEH-425 DEH-425



● See the service manual CX-597(CRT1811) for the CD mechanism description, disassembly arad circuit description.

ES

ES

ES

The CD mechanism employed in this model is one of CX-597 series.

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CD Player Service Precautions

- For pickup unit(CGY1070) handling, please refer to Disassembly (CX-597 Service Manual CRT1811).
 During replacement, handling precautions shall be taken to prevent an electrostatic discharge(protection by a short pin).
- During disassembly, be sure to turn the power off since an internal IC might be destroyed when a connector is plugged or unplugged.

1. SAFETY INFORMATION

CAUTION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely; you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health & Safety Code, Section 25249.5). When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with the solder. Also, when soldering do not inhale any smoke or fumes produced.

2. SPECIFICATIONS

General —	
Dower cource	14.4 V DC (10.8 — 15.1 V allowable)
May current consul	mption 10.0 A
Dimensions	mpuon
(DIN)) (chassis)
(DIII)	$[7 \text{ (W)} \times 2 \text{ (H)} \times 5\text{-}7/8 \text{ (D) in.}]$
	(nose)
	[7-3/8 (W) \times 2-1/4 (H) \times 7/8 (D) in.]
(D)	(chassis)
(D)	(chassis)
	(nose)
	[6-3/4 (W) \times 1-7/8 (H) \times 5/8 (D) in.]
TT7 ' 1.4	$[0-3/4 \text{ (W)} \times 1-7/8 \text{ (H)} \times 3/8 \text{ (D) in.}]$
weight	1.3 kg (3.3 lus)
Amplifier	
Continuous power of	output is 15 W per channel min. into 4 ohms, both channels
driven 50 to 15,000	Hz with no more than 5% THD.
Maximum power or	itput
Load impedance	
	output impedance 500 mV/ 1 kΩ
Tone controls	
(Bass)	±12 dB (100 Hz)
(Treble)	±12 dB (10 kHz)
Loudness contour	+10 dB (100 Hz), +7 dB (10 kHz)
	(volume: -30 dB)
CD player	
System	Compact disc audio system
Lianhia diago	
Cianal format	
Signal format	Number of quantization bits: 16; linear
Eroanonar abaras	teristics
Signal to make an	tio
Signal-to-noise ra	00 dB (1 kHz)
Dynamic range	90 dB (1 kHz)
Number of chann	els
FM tuner	
Frequency range	(UC) 87.9 — 107.9 MHz
Frequency range	(FS) 87.5 — 108 MHz
Usable sensitivity	11 dBf (1.0 V/75Ω, mono, S/N: 30 dB)
50 dB quieting se	nsitivity
Signal-to-noise ra	tio
Distortion	
Frequency respon	se
Steren congration	
Selectivity	
Three-signal inter	
(decire cianal	level) 50 dBf (two undesire signal level: 110 dBf)
(desire signal	(two undesire signal level, 110 db1)
AM tuner-	
	(UC, ES) 530 — 1,710 kHz
Frequency range	(ES)
Usable sensitivity	(ES)
Selectivity	
Notes	

Note: Specifications and the design are subject to possible modification without notice due to improvements.

3. OPERATION AND CONNECTION

Tuner Operation

Tuner Source and Band

 Push the SOURCE button or the Tuner button to select Tuner.

The Frequency appears on the display. (""O" indicator lights when stereo station selected.)

Use the BAND button to select the desired band.

(FM1, FM2, FM3, AM)

Manual and Seek Tuning

Both Manual (step-by-step) and Seek (automatic) tuning are available.

1. Press the MANU button to switch alternately between the Manual and Seek tuning modes.

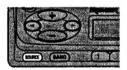
The "MANU" indicator lights when Manual tuning is selected and turns OFF when Seek tuning is selected.

2. Press the (►) button to tune the receiver to a higher frequency.

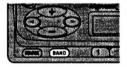
MANU ON (Manual tuning):
The frequency changes step by step.
MANU OFF (Seek Tuning):
The tuner automatically seeks out and receives broadcasting stations.

 Press the (◄) button to tune the receiver to a lower frequency.



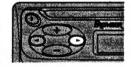




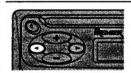














Using the Built-in CD Player

The built-in CD player plays one standard 12 cm or 8 cm (single) CD at a time. Do not use an adapter when playing 8 cm CD.

Inserting and Removing Discs

 Insert the disc with the recorded (iridescent) surface down.

CD playback begins immediately, whether or not the player is ON or the built-in CD source selected. The track number and playing time are displayed.

• Press the **Eject** button to eject any disc loaded in the disc slot.

Playing the Built-in CD player

 To play a CD that is already loaded, press the SOURCE or CD button with a CD loaded to select the built-in CD player.

The built-in CD player is selected only when a CD is loaded.



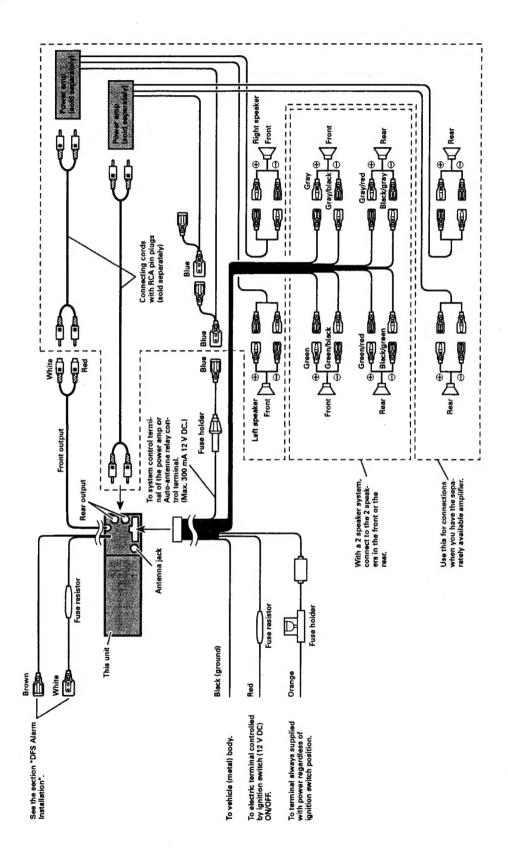








Connection Diagram



4. DISASSEMBLY

■ Removing the Case(Not shown)

- 1. Remove the two screws.
- 2. Insert and turn a flat screwdriver at locations indicated by arrows to remove the case.

Removing the Detach Grille Assy(Fig.1) (Except for DEH-225/UC and DEH-223/ES)

1.Press the detach button, and then pull detach grille assy.

■ Removing the Panel Assy(Fig.1) (Except for DEH-225/UC and DEH-223/ES)

1. Disconnect the two stoppers indicated by arrows, and then remove the panel assy.

■ Removing the CD Mechanism Module(Fig. 1,2)

- 1. Remove the four screws.
- 2. Disconnect the connector.
- 3. Remove the CD mechanism module.

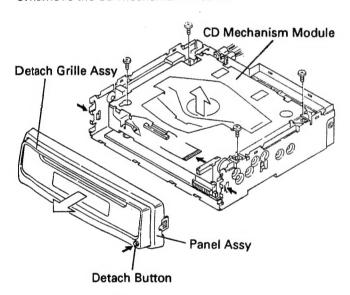


Fig.1

Removing the Grille Assy(Fig.2) (DEH-225/UC and DEH-223/ES)

- 1. Disconnect the connector.
- 2. Disconnect the two stoppers indicated by arrows, and then remove the grille assy.

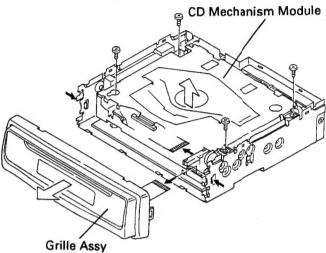


Fig. 2

■ Removing the Chassis Unit(Fig.3)

- Remove the screw A, two screws B, screw C and two screws D.
- 2. Stretch the claw.
- 3. Remove the two cords, and then remove the chassis Unit.

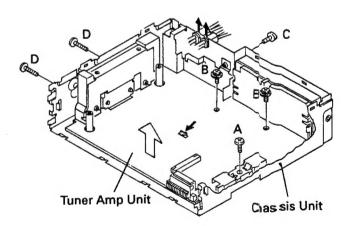


Fig. 3

5. ADJUSTMENT

Connection Diagram

NOTE:

Select C1 so that total capacity of 80pF is attained from the direction of the receiver jack.

Z: Output impedance of SSG.

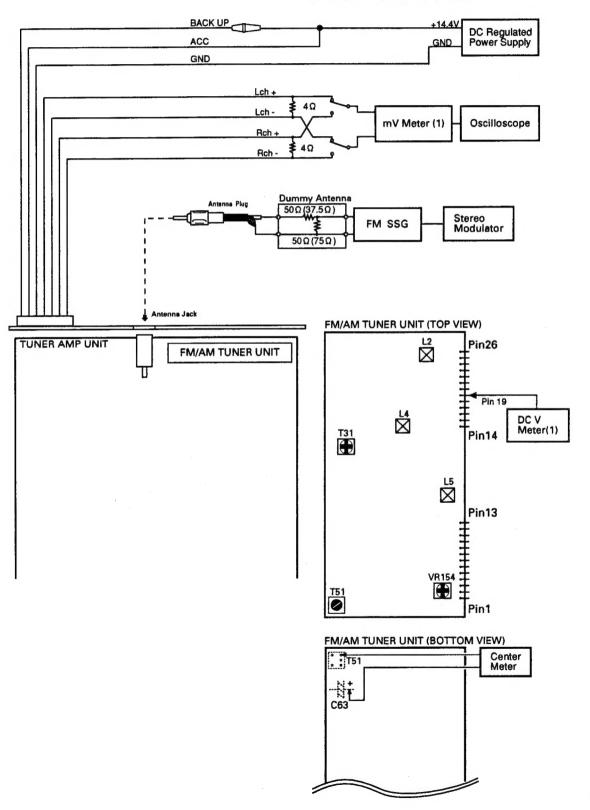


Fig. 4

FM ADJUSTMENT(UC MODEL)

Modulation M:MONO MOD., 400Hz 30%(22.5kHz Dev.)

S:STEREO MOD., 1kHz, L or R=30%(20.25kHz+7.5kHz Dev.)

NOTE:Before proceeding to further adjustments after switching power ON, let the tuner run for ten minutes to allow the circuits to stabilize.

		FM SSG		Displayed	Adjustment	Adjustment Method
	No.	Frequency(MHz)	Level(dBf)	Frequency(MHz)	Point	(Switch Position)
TUN Volt	1	••••	••••	107.9	L5	DC V Meter(1): 6V
IF	1	98.1 M	60	98.1	T51	Center Meter : 0
ANT Coil	1	98.1 M	5	98.1	L2	mV Meter(1): Maximum
RF Coil	1	98.1 M	5	98.1	L4	mV Meter(1): Maximum
IFT	1	98.1 M	5	98.1	T31	mV Meter(1): Maximum (STEREO MODE)
ARC	1	98.1 S	39	98.1	VR154	mV Meter(1): Separation 5dB (STEREO MODE)

FM ADJUSTMENT(ES MODEL)

		FM SS	SG	Displayed	Adjustment	Adjustment Method
	No.	Frequency(MHz)	Level(dBf)	Frequency(MHz)	Point	(Switch Position)
TUN Volt	1	••••	••••	108.0	L5	DC V Meter(1): 6V
IF	1	98.1 M	60	98.1	T51	Center Meter : 0
ANT Coil	1	98.1 M	5	98.1	L2	mV Meter(1): Maximum
RF Coil	1	98.1 M	5	98.1	L4	mV Meter(1): Maximum
IFT	1	98.1 M	5	98.1	T31	mV Meter(1): Maximum (STEREO MODE)
ARC	1	98.1 S	39	98.1	VR154	mV Meter(1): Separation 5dB (STEREO MODE)

6. TEST MODE

6.1 TEST MODE

1)Precautions

 This unit uses a single power supply (+5V) for the regulator. The signal reference potential, therefore, is connected to REFO(approx. 2.5V) instead of GND.

If REFO and GND are connected to each other by mistake during adjustments, not only will it be impossible to measure the potential correctly, but the servo will malfunction and a severe shock will be applied to the pick-up. To avoid this, take special note of the following.

Do not connect the negative probe of the measuring equipment to REFO and GND together. It is especially important not to connect the channel 1 negative probe of the oscilloscope to REFO with the channel 2 negative probe connected to GND.

Since the frame of the measuring instrument is usually at the same potential as the negative probe, change the frame of the measuring instrument to floating status.

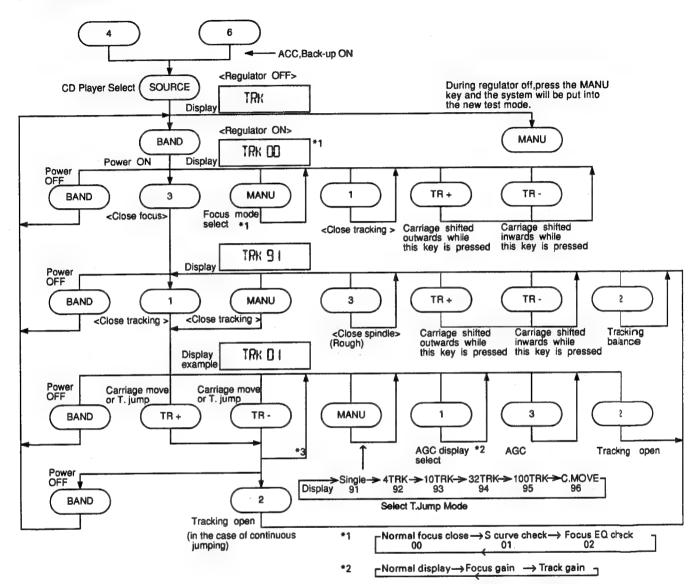
If by accident REFO comes in contact with GND, immediately switch the regulator or power OFF.

- Always make sure the regulator is OFF when connecting and disconnecting the various filters and wiring required for measurements.
- Before proceeding to further adjustments and measurements after switching regulator ON, let the player run for about one minute to allow the circuits to stabilize.
- Since the protective systems in the unit's software are rendered inoperative in test mode, be very careful to avoid mechanical and /or electrical shocks to the system when making adjustment.
- Test mode starting procedure
 Switch ACC, back-up ON while pressing the 4 and 6 keys together.

- Test mode cancellation Switch ACC, back-up OFF.
- Disc detection during loading and eject operations is performed by means of a photo transistor in this unit. Consequently, if the inside of the unit is exposed to a strong light source when the outer casing is removed for repairs or adjustment, the following malfunctions may occur.
 - *During PLAY, even if the eject button is pressed, the disc will not be ejected and the unit will remain in the PLAY mode.
 - *The unit will not load a disc.

 When the unit malfunctions this way, either re-position the light source, move the unit or cover the photo transistor.
- When loading and unloading discs during adjustment procedures, always wait for the disc to be properly clamped or ejected before pressing another key. Otherwise, there is a risk of the actuator being destroyed.
- Turn power off when pressing the button TR+ or the button TR- key for focus search in the test mode. (Or else lens may stick and the actuator may be damaged.)
- SINGLE/4TRK/10TRK/32TRK will continue to operate even after the key is released. Tracking is closed the moment C-MOVE is released.
- JUMP MODE resets to SINGLE as soon as power is switched off.

Flow Chart



^{*3 100} TRK jump & carriage move continue only while the keys are pressed

6.2 ERROR NUMBERS AND NEW TEST MODE

Error Number Indication

If the CD should fail to operate or if an error has taken place during operation the player will enter into the error mode, and the cause of the error will be numerically indicated.

This is aimed at assisting in analysis or repair.

(1) Basic Means of Display

·With ERROR indicated in "MODE" on IP-BUS Display data, an error code is transmitted by the use of MIN and SEC. The MIN and SEC data will be identical.

·Examples of Display

ER-XX

(2) Error Codes

2) Error Co	odes		, , , , , , , , , , , , , , , , , , , ,
Error Code	Classification	Description	Cause/Detail
10	ELECTRIC	Carriage home failure	Carriage doesn't move to or from the innermost position →Home switch failed and/or carriage immobile
11	ELECTRIC	Focus failure	Focus failed →Defects, disc upside-down, severe vibration
12	ELECTRIC	SETUP failure Subcode failure	Spindle failed to lock or subcode unreadable →Spindle defective, defect, severe vibration
14	ELECTRIC	Mirror failure	Unrecorded CD-R The disc is upside-down, defects, vibration
17	ELECTRIC	Set up failure	AGC protect failed →Defects, disc upside-down, severe vibration
30	ELECTRIC	Search time out	Failed to reach target address →Carriage/tracking defective and/or defects
A0	SYSTEM	Power failure	Power overvoltage or short circuit detected →Switching transistor defective and/or power abnormal

[&]quot;defects" means scratches, dirt etc an the surface of the disc.

New Test Mode(aging operation and setup analysis)

The single CD player plays in normal mode. After being set up, it will display FOK (focus), LOCK (spindle), subcode, sound skip, protection against a mechanical error or the like, occurrence of an error, cause and time of an expiry, if any, (and disc number).

During the setup, the CD software operation status (internal RAM and C-point)is displayed.

(1) How to enter NEW TEST Mode

See the test mode flow chart Page 11.

(2) Relations of keys between TEST and NEW TEST Modes

Keys	_Test N	fode	New Test Mode				
	Regulator OFF	Regulator ON	PLAY in progress	Error Occurred, Protection Activated			
BAND	Regulator ON	Regulator OFF	_	Time of occurrence / cause of error select			
TR+	_	FWD-KICK	TRACK+/FF				
TR-		REV-KICK	TRACK-/REV	<u> </u>			
1	<u> </u>	TRACKING CLOSE	SCAN				
2	_	TRACKING OPEN	REPEAT				
3		FOCUS CLOSE	RANDOM	-			
MANU	To New Test	FOCUS MODE	AUTO/MANU	TRACK No./ time of occurrence select			
	Mode Select						

Operations, such as EJECT, CD ON/OFF, etc. are performed normally.

(3) Error Cause (Error Number) Code

Error Code	Classification	Mode	Description	Cause	Detail
40	ELECTRIC	PLAY	FOK=L 100ms	Put out of focus	Scratch,
41	ELECTRIC	PLAY	LOCK=L 100ms	Spindle unlock	Stain,
42	ELECTRIC	PLAY	Subcode	Failed to read subcode	Vibration,
			unacceptable 500ms		Servo defect,
43	ELECTRIC	PLAY	Sound skipped	Last address memory	etc
				operated	

(4) Indicating an Operation Status During Setup

Status No.	Description	Protection operation
01	Carriage home mode started	None
02	Carriage moving inwards	10-second time out, Home switch failed
03	Carriage moving outwards	10-second time out, Home switch failed
05	Carriage moving outwards	None
11	Setup started	None
12	Spindle turn/Focus search started	None
13	Waiting for focus closure (XSI=L)	Failure to close focus
10,14	Waiting for focus closure (FOK=H)	Failure to close focus
15, 16, 17	Focus closed, Tracking open	Focus disrupted
18	During focus AGC	Focus disrupted
	Subcode waiting	
19	During tracking AGC	Disrupted focus
20	Waiting for MIRR, LOCK or subcode read	Focus disrupted, MIRR NG, Failure to lock,
	Carriage closed, SPINDLE=ADAPTIVE	Failed to read subcode

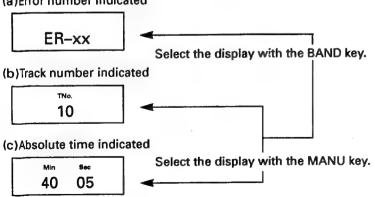
(5) Example of Display.

·SET UP in progress Auto

Auto TNo.	Manual
TNo.	Min Sec
11	11 11

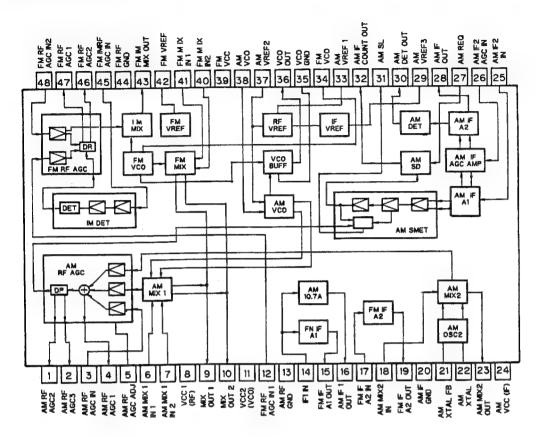
- ·Operation (PLAY, SEARCH, etc.) in progress perfectly identical with that in the normal mode.
- ·Protection/Error upon occurrence



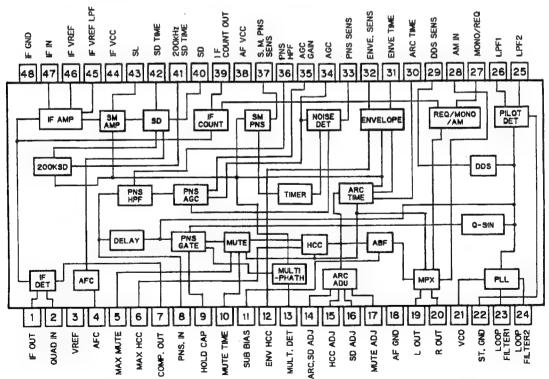


7. IC INFORMATION

PA4023A



PA4024A



Pin Functions (UPC2572GS)

Pin Funct	tions (UPC2572	<u>(GS)</u>	
Pin No.	Pin Name	1/0	Function and Operation
1	EFM-IN		EFM comparator input
2	AGC-OUT	0	AGC amplifier output
3	C. AGC		Connects AGC peak detection condenser
4	RF-IN	1	RF signal DC component cut input
5	RF-OUT	0	RF amplifier output
6	RF-	1	RF amplifier inverted input
7	C1, 3T		Connects RF3T component detection condenser
8	C2, 3T		Connects RF3T component detection condenser
9	Vcc		Power supply
10	Α		A signal input
11	С	1	C signal input
12	В	1	B signal input
13	D	1	D signal input
14	F	1	F signal input
15	Ē	1	E signal input
16	PD	1	APC amplifier input
17	LD	0	APC amplifier output
18	LDON	1	Laser diode ON/OFF input
19	VREF-OUT	0	Reference voltage output
20	VREF-IN	1	Reference voltage input
21	DET-OUT	0	Vibration detection circuit output
22	DET-IN	1	Vibration detection circuit input
23	TE-OUT2	0	Tracking error amplifier output (fourfold gain)
24	TE-OUT1	0	Tracking error amplifier output (singlefold gain)
25	TE-	1	Tracking error amplifier inverted input
26	GND		GND
27	FE-	1	Focus error amplifier inverted input
28	FE-OUT	0	Focus error amplifier output
29	C.FE		Focus error signal DC component cut input
30	3T-OUT	0	RF3T component output
31	MIRR	0	MIRR signal output
32	RFOK	0	RFOK signal output
33	DEFECT	0	DEFECT signal output
34	C. DEF		Connects DEFECT signal detection condenser
35	EFM-OUT	0	EFM comparator output
36	ASY	1	EFM comparator level input
37	TE-BAL		Tracking balance control
38	FE-BAL	I	Focus balance control

UPC2572GS

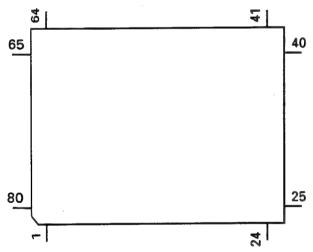
38 37 3	36 35	34 33	32	31	30 29	28	27	26	25	24	23	22	21	20

● Pin Functions (UPD63702GF)

Pin No.	Pin Name	I/O	Function and Operation
1	D.VDD		Supplies current of positive voltage to the logic circuits
2	RST		System reset input pin
3	AO	1	Microcomputer interface
			AO="L": STB active and set to address register
			AO="H": STB active and set to parameter
4	STB	1	Signal to latch serial data within the LSI
5	SCK	1	Clock input pin to input and output serial data
6	SO	0	Outputs serial data and status signal
7	SI	1	Serial data input pin
8	D.GND		Logic circuit GND
9	X.GND		Crystal oscillation circuit GND
10	XTAL	1	Crystal oscillator connection pin
11	XTAL	0	Crystal oscillator connection pin
12	X.VDD		Supplies current of positive voltage to the crystal oscillation circuit
13	DA.VDD		Supplies current of positive voltage to the D/A converter
14	R+	0	Right channel analog audio data output pin
15	R-	0	Right channel analog audio data output pin
16,17	DA.GND		D/A converter GND
18	L-	0	Left channel analog audio data output pin
19	L+	0	Left channel analog audio data output pin
20	DA.VDD		Supplies current of positive voltage to the D/A converter
21	D.VDD		Supplies current of positive voltage to logic circuit
22	FLAG	0	Flag output pin to indicate that audio data currently being output consists of
			noncorrectable data
23	WDCK	0	Pin to output double the frequency of LRCK
24	C16M	0	Pin to output the clock
25	EMPH	0	Output pin for the pre-emphasis data in the sub-Q code
26	DIN	1	Input pin for serial audio data
27	DOUT	0	Output pin for the serial audio data
28	SCKO	0	Output pin for the clock for the serial audio data
29	LRCK	0	Signals to distinguish the right and left channels of the audio data output
			from DOUT. Frequency is 44.1kHz at 50% duty at normal regeneration
. 30	TX	0	Output pin for the digital audio interface data
31	CTLV		Oscillation control pin for high-frequency clock generation VCO used for the
	1		digital PLL upon regeneration at fast speed of 2- or 4-fold
32	POUT	0	Output point for phase comparison
33	D.GND		GND for the logic circuit
34	vco	1	Input pin for the inverter
35	VCO	0	Output pin for the inverter
36	D.VDD		Supplies current of positive voltage to the logic circuit
37	PLCK	0	Pin for monitoring the bit clock
38	LOCK	0	Indicates "H" when the synchronized pattern detection signal matches the
			frame counter output at the EFM recovery modulation, and "L" when they
			don't match
39	WFCK	0	Minute-cycle signal for the bit clock, the signal indicates the cycle of 1 frame
			(approx. 7.35kHz)
40	RFCK	0	Minute-cycle signal for the clock, the signal indicates cycle of 1 frame
			(approx. 7.35kHz)
41	D.GND		GND for the logic circuit
42,43	TEST0,1	1	Test pins
44,45	TM2,TM4	1	Pins for controlling regeneration at fast speed of 2- or 4-fold
46-49	T4-T7	I	Test pins
50,51	C1D1,C1D2	0	Output pin for indicating the C1 error correction results
52-54	C2D1-C2D3	0	Output pin for indicating the C2 error correction results
55	D.VDD		Supplies current of positive voltage to the logic circuit
56	SFSY	0	Outputs 1 word of the subcode. Generally, 1 cycle is approx 136 micro seconds
57	SBSY	0	The signal indicates the beginning of the subcode block. The SFSY signal is
			output at high level every 98 times
58	SBSO	0	Output pin for the subcode data

Pin No.	Pin Name	1/0	Function and Operation
59	SBCK	11	Input pin for the clock signal for read-out of the subcode data
60	A.GND		GND for the analog circuit
61	MD	0	Output pin for the spindle drive
62	SD	0	Output pin for the sled drive
63	TD	0	Output pin for the tracking drive
64	FD	o	Output pin for the focus drive
65	FBAL	ō	Output pin for the focus balance control
66	TBAL	0	Output pin for the tracking balance control
67	A.VDD		Supplies current of positive voltage to the analog circuit
68	TBC	T	Switches coefficient banks for the tracking filter
69	EFM	i i	Input pin for the EFM signal
70	HOLD	ti	Input pin for the hold control signal
71	RFOK	i	Input pin for the RFOK signal
72	MIRR	li -	Input pin for the MIRR signal
73	A.GND	'	GND for the analog circuit
74,75	VR2,1	1	The signal input through these pins is digitized to 8-bit by the A/D converter,
74,73	V112,1	1	which by operation of the assigned register, can be read into the microcomputer
76	FE	1	Inputs a focus-error signal from the RF amplifier
77	TE	ii -	Inputs a tracking-error signal from the RF amplifier
78	TEC	ti	Input pin for the tracking comparator
79	REFOUT	o	Output point for midpoint potential for the A/D converter for the LSI portion
80	A.VDD	 ~ 	Supplies current of accurate voltage to the analog circuit
- 00	7.400		Ouppiloo dallott of detector to the strang distance

*UPD63702GF



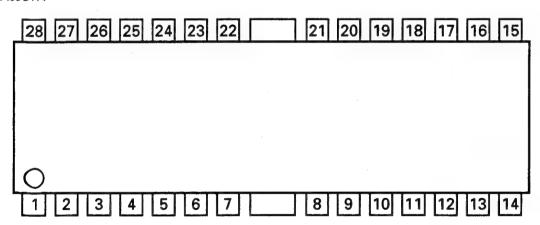
IC's marked by* are MOS type.

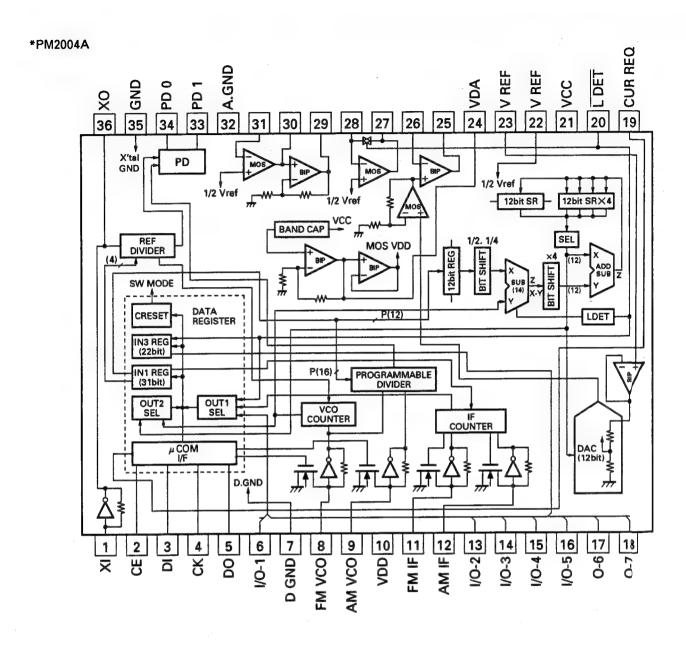
Be careful in handling them because they are very liable to be damaged by electrostatic induction.

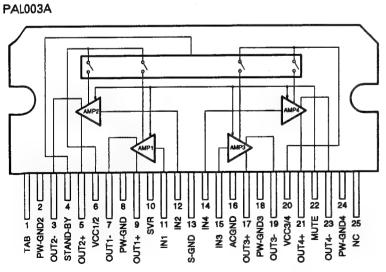
● Pin Functions (XLA6997FP)

Pin Functions (ALA659/FF)								
Pin No.	Pin Name	1/0	Function and Operation					
1	OUT1-A	0	CH1 driver output					
2	OUT1-B	0	CH1 driver output					
3	IN1		CH1 input					
4	IN1'		CH1 gain adjustment input					
_ 5	REG-B		PowTr base connection pin for regulator					
6	REG OUT	0	Regulator output PowTr collector connection					
7	REG GND		Regulator GND/Common circuit GND					
8	BIAS		BIAS input					
9	MUTE		Mute control pin					
10	REG SW		Regulator switch pin					
11	TEMP MON		Humidity monitor pin					
12	IN2	1	CH2 input					
13	OUT2-B	0	CH2 driver output					
14	OUT2-A	0	CH2 driver output					
15	GND		GND					
16	OUT3-A	0	CH3 driver output					
17	OUT3-B	0	CH3 driver output					
18	IN3"		CH3 gain adjustment pin					
19	IN3'		CH3 gain adjustment pin					
20	IN3		CH3 input					
21,22	VCC		VCC					
23	IN4		CH4 input					
24	IN4'		CH4 gain adjustment pin					
25	IN4"		CH4 gain adjustment pin					
26	OUT4-B	0	CH4 driver output					
27	OUT4-A	0	CH4 driver output					
28	GND		GND					

XLA6997FP





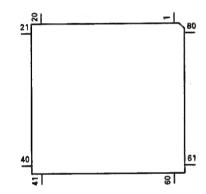


● Pin Functions (PDR027A)

Pin Func	tions (PDR02	7A}		
Pin No.	Pin Name	1/0	Format	Function and Operation
1	MODEL1	1		Model select input
2,3	NC			Not used
4	AVSS			GND
5	ST	1		FM stereo input
6	SD	1		SD input
7	AVREF1	† ·		A/D converter reference voltage
8	KYDT			Key data input
9	DPDT	0	C	Display data output
10	NC	-	 	Not used
	PDI		+	Data input from PLL IC
11	PDO	0	c	Data input from FEL IC
12	PCK	0	C	Serial clock output for PLL IC
13		0	C	Chip enable output for PLL IC
14	PCE		c	Tuner voltage FIX output
15	CURRO	0	L	Data input from CD mechanism module LSI
16	XSI	1		
17	XSO	0	C	Data output for CD mechanism module LSI
18	XSCK	0	С	Clock output for CD mechanism module LSI
19	NC		 _ _ 	Not used
20	AM	0	С	AM power control output
21	FM	0	С	FM power control output
22	VDCONT	0	С	VD control output
23	CONT	0	С	Servo driver power supply control
24	XAO	0	С	Command/Data output for CD mechanism module LSI
25	XRST	0	С	Reset output for CD mechanism module LSI
26	XSTB	0	С	Strobe output for CD mechanism module LSI
27	CLAMP	1		Disc clamp sense input
28	MIRR	1		Mirror detector input
29	FOK	1		Focus OK signal input
30	LOCK	ı		Spindle lock detector input
31	CDLOAD	Ö	С	Load motor loading control output
32	NC			Not used
33	VSS			GND
34	CDEJET	0	С	Load motor eject control output
35	CD5VON	0	C	CD +5V power supply control output
36	DLED	0	N	Alarm LED output
37,38	MODEL2,3	†ř	1	Model select input
39,40	NC NC	+ '	1	Not used
	SWVDD	0	c	Grille power supply control output
41	SYSPW	10	c	System power supply control output
				Illumination power supply control output
43	ILMPW	0	C	
44	MUTE			System mute output
45	PEE	0	C	Beep tone output
46	DOORH	0	С	Door system select output
47	DRSENS	+		Door open/close sense input
48	NC	1-	 _ _ 	Not used
49	VST	0	С	Strobe pulse output for electronic volume
50_	VCK	0	С	Clock output for electronic volume
51	VDT	0	С	Data output for electronic volume
52-54	NC			Not used
55	DRELAY	0	С	External relay output
56	TUNPW	0	С	Tuner power supply control output
57	LPFSW	0	С	Output for FIE
58,59	NC			Not used
60	RESET	T I		Reset input
61	LDET	T		PLL lock sense input
62	NC	T .		Not used
63	ASENS	1	1	ACC power sense input
64	BSENS	ti	 	Back up power sense input
04	I DOCIAO	1		I DOOK OF DOMOL SOLISO HIDAL

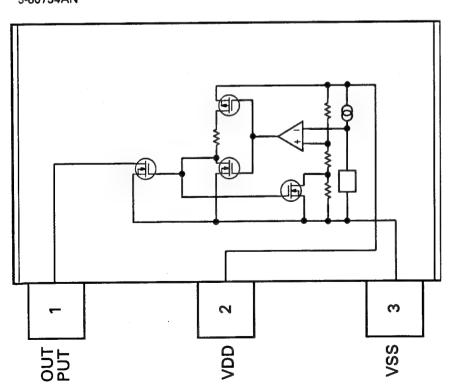
Pin No.	Pin Name	1/0	Format	Function and Operation
65	DSENS	1		Grille detach sense
66	CLKIN	1		Clock input
67	NC			Not used
68	VDD			Power supply
69	X2			Crystal oscillator connection pin
70	X1			Crystal oscillator connection pin
71	IC			Connect to GND
72	XT2			Not used
73	TESTIN	ı		Test program mode input
74	AVDD			Positive power supply terminal for analog circuit
75	AVREF0			A/D converter reference voltage
76	SL	1		SD level input from tuner
77	TEMP	1		Temperature detect input
78	VDSENS	I		VD power supply short detection input
79	DSCSNC	I		Disc sense input
80	EJTSNC	1		Disc eject position sense input

*PDR027A

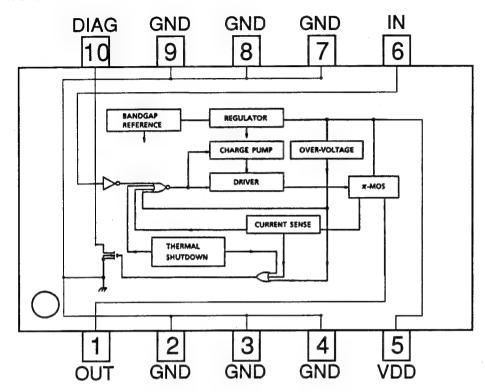


Format	Meaning
С	C MOS
N	N channel open drain

*S-80734AN



TPD1018F



8. ELECTRICAL PARTS LIST

NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

RS1/OSOOOJ,RS1/OOSOOOJ

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

====Circuit S	mbol & No. Part Name=====	Part No.	==	===Ci	rcuit	Symi	ol &	No. P	art	Name		=	Part No.
Unit Number	: CWM4485(DEH-59/UC)		R	441	442	506	537	539	624	625			RS1/10S0R0J
	Tuner Amp Unit		R	443	444								RD1/4PU222J
	•		R	445	446								RS1/10S162J
MISCELLANEC	US		R	459	460	633							RS1/10S272J
11100222			R	461	462								RS1/10S151J
C 451		SN761025DL	_										FC4/4.0C404.1
501		PM2004A	R		464								RS1/10S101J
C 551		PAL003A	R			523	571	580	954	955	972	975	RS 1/1 0S 103J
C 601		PDR027A	R	475	476								PD1/4PU471J
602		S-80734AN	R	501									RS1/8S102J
			R	502	511	657	668						FS 1/1 0S222J
C 961		TPD1018F	_										ED 44 - EL 14EO 1
2 421 431 4		FMG3A	R	503	608	609	610	651	652				FD1/4PU472J
423 441		DTA124ES	R	504									FD1/4PU223J
501 631 9	53 971 972	2SC2458	R	507									FS1/8S473J
502		DTC114ES	R	508									FS1/10S102J
			R	509	526								PS1/10S472J
2 551		DTC144ES											
632 992		FMC2A	R	513	528			978					FS1/10S472J
641		DTC114ES	R	514	607	627	659	956	971	973	974	976	FS 1/1 OS473J
651		2SA1048	R	515	516	518							FD1/4PU681J
653		2SB1236	R	517									PD1/4 PU681J
			R	519	520								FS1/1 OS392J
654 952		DTC124ES											
951		2SB1243	R	521									F\$1/1 0S152J
973		2SD1859	R	522									F\$1/1 OS682J
981 991		2SD2396	R	524									F\$1/1 OS561J
982 983		2SA1674	R	525									FD1/4 PU272J
. ,0, ,00			R	527									F\$1/1 OS682J
984		FMG1A											
	01 954 955	1SS133	R	529									R\$1/1 OS681J
		1SR139-200	R	530									R\$1/1 OS222J
633		BR4361F	R	531									R\$1/1 OS103J
657		HZS6LB2	R	532									F\$1/1 OS224J
, 007			R	533									F\$1/850R0J
658 659 6	60	MA153											
953		HZS9LA2	R	534	605	665	958	985	986				F)1/4 PU102J
971		HZS7LC3	R	536									R\$1/85102J
972		HZS7LC2	B	570									R1/85103J
973		1SR139-200	R	579									R\$1/1 OS331J
310			R	581	582	584	642						R)1/4 PU102J
974		HZS6LB1											
981		HZS9LB3	R	583									R)1/1 OS562J
992		HZS9LB1	R	601									RV1/1 0SE223D
		LAU220K	R	602									F)1/4 PU104J
_ 501 _ 502 601		LAU2R2K	R	603									R)1/1 OS333J
L 502 601	remiducio	DIOZNEK	R	604									R)1/1 OS393J
503 631	Ferri-Inductor	LAU2R2K		-54									
	• • • • • • • • • • • • • • • • • • • •	LAU101K	R	606									R:1/1 @S124J
		LAU101K	R		622	638	630						F)1/4 PU473J
. 651			B	630	022	030	033						R)1/4 PU473J
H 601	***************************************	CCX1031		631									R)1/4 PU103J
501	Crystal Resonator 7.2MHz	CSS1379	R	632									R)1/8 \$ 223J
C04	Ceramic Resonator 4.19MHz	CSS1047	п	032									N 1/0-22200
601		CWE1417	Đ	634	QE2	953							P)1/4 PU331J
7		CPV1011		635	JJZ	333							R)1/4 PU103J
BZ 601	Buzzer	CI VIUII		641									R1/1 OS202J
CONTORS			R		654	655	621	es.	684				F)1/4 PU222J
ESISTORS			R	656	034	033	UO 1	003	504				R)1/4 PU472J
2 401 400		RS1/10S104J	n	030									171/45 07/20
R 421 422		R\$1/8\$471J	R	658									FI1/8 \$5222J
		RS1/10S471J	R	661	001								R1/1 OS1R0J
R 431		13-21/14-24/14	11	001	30 I								141/100
R 432				602									D)1/4 ■P! 1999 I
R 432 R 433 434 4	78 691 693	RS1/10S102J RS1/10S223J	R	682 688									R)1/4 ₽U222J R)1/4 ₽U681J

R 9877 R 982	====Circuit Sym		rt Name=		Part No.	=====	Circuit	Symbol	& No. Part	Name=====	Part No.
RESISTORS CAPACITION RESISTORS	R 977 R 982 R 984 R 987				RD1/4PU471J RS1/8S472J RS1/10S221J	IL 90	1 902	903 90	4 Lamp Lamp	14V 40mA	CEL1341 CEL1341
CAPACITORS CEAPRIMENT	11 331 332					RESIS	TORS				
R 908 RS1/10547 RS1/1054	R 994				RS1/10S122J	E 00	4 000	000			DC 1/0C000 I
C 421 422 433 434 457 458 463 464 473 570 CEA10MHSLL C 435 436 437 438 CCSCCH2QU350 C 436 446 447 439 607 C 451 452 449 470 474 490 607 C 452 454 644 647 C 455 469 470 474 490 607 C 456 469 460 C 457 468 604 C 457 468 604 C 457 468 604 C 457 468 604 C 458 468 470 474 490 607 C 459 460 C 450 462 572 574 C 450 468 462 572 574 C 450 468 462 572 574 C 451 462 572 574 C 452 C 574 574 C 452 C 574 574 C 453 468 464 C 457 468 671 572 574 C 458 468 468 C 459 460 C 450 460	CAPACITORS					R 90	6	903			RS1/10S470J
C 431 427 438 444 457 458 469 464 473 570 €EATOMHSLL C 455 436 444 447	C 421 422				CEA3R3M50LL			913 91	4		RS1/10S471J
C 445 446 447 C CKSQYB178X55 C 901 902 903 904 CKSQYB12K50 C 905 (CKSQYB12K50 C 905 CKSQYB12K50 C 905 (CKSQYB12K50 C 905 CKSQYB12K50 CKSQYB12K50 CKSQYB12K50 CKSQYB12K50 CKSQYB12K50 CKSQYB12K50 CKSQYB12K50 CKSQYB12K50 C 455 466 C CSQCH101J50 CKSQYB15K50 C 471 472 C CKSQYB12K50 CKSQYB12K50 C 471 472 C CKSQYB12K50 C CKSQYB12K50 C 471 472 C CKSQYB12K50 C CKSQYB12K50 C CKSQYB12K50 C CKSQYB12K50 C 471 472 C C 477 462 C CKSQYB12K50 C CKSQYB12K50 C CKSQYB12K50 C 471 472 C C 477 462 C CKSQYB12K50 C CKSQYB12K50 C CKSQYB12K50 C 471 472 C C 477 462 C C CSQCH101J50 C CKSQYB12K50 C C 471 472 C C 477 462 C C C C C C C C C C C C C C C C C C C		434 457 4	458 463	464 473 570					•		
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C 455	C 445 440 447				OKOG I D I OZNOV			300 00	•		CEA470M6R3LS
C 455			490 607			C 90	6				CKSQYB473K50
C 459 460		•				[Init	dumba	- · CWE1	417		
C 481 462 572 574 CEA010M50LL C 485 466 CESCOCH101J50 CESCOCH101J50 CEA010M50LL C 477 472 CESCOCH101J50 CEA010M50LL C 478 481 CEA010M50LL C 483 484 CESCOCH101J50 CEA010M50LL C 483 484 CESCOCH101J50 CEA010M50LL C 483 486 507 513 992 CESCOCH101J50 D 5 7 8 CESCOCH101J50 CEA010M50L C 504 651 872 974 991 CESCOCH101J50 D 5 7 8 CESCOCH101J50 CESCOCH101J										nit	
C 461 462 572 574 CEA010M50LL C 465 466 CKSCYPB132K50 IC 2 C 477 472 CKSCYPB134K50 Q 2 203 DTC124EU 35K263 C 477 472 CKSCYPB104K50 Q 2 203 DTC124EU 35K263 C 481 484 CKSCYPB103K50 Q 2 203 DTC124EU 35K263 C 483 484 CKSCYPB103K50 D 1 2 C 485 486 507 513 992 CKSCYPB103K50 D 2 3 C 485 486 507 513 992 CKSCYPB103K50 D 2 3 C 506 651 972 974 991 CKSCYPB103K50 D 2 31 C 506 651 972 974 991 CKSCYPB103K50 D 2 31 C 507 508 508 509 535 C 508 509 509 509 509 509 CKSCYPB103K50 D 2 31 C 508 509 509 509 509 509 CKSCYPB103K50 D 2 31 C 509 509 509 509 509 509 CKSCYPB103K50 D 2 31 C 500 500 500 500 509 509 509 CKSCYPB103K50 D 2 31 C 500 500 500 500 509 509 509 CKSCYPB103K50 D 2 31 C 500 500 500 500 500 500 500 CKSCYPB103K50 D 2 31 C 500 500 500 500 500 500 500 500 500 50									.,		
C 467 468 C CCSCH101J50 IC 2 PA4023A PA4024A P					07.4.0404.4704.4	MISC	ELLANE	ous			
C 477 488		5/4				IC	1				ΡΔ4023Δ
C 477 472											
C 478 501 508 517 519 527 529 590 982	C 471 472							202			2SC2412KLN
C 481 501 508 517 519 527 529 590 982 CKSOYB103K50 C 481 484 484 507 513 992 CKSOYB102K50 D 4 12 CKSOYB102K50 D 4 185V251 C 485 486 507 513 992 CKSOYB102K50 D 5 7 8 KY1410 C 506 CKSOYB102K50 D 5 7 8 KY1410 C 506 CKSOYB103K50 CKSOYB103K50 D 5 7 8 KY1410 C 506 CKSOYB103K50 D 231 CKSOYB102K50 D 6 201 202 CKSOYB103K50 D 231 CKSOYB102K50 D 6 201 202 CKSOYB103K50 D 231 CKSOYB102K50 D 6 201 202 CKSOYB103K50 D 231 CKSOYB103K50 D 6 201 202 CKSOYB103K50 D 231 CKSOYB103K50 D 6 201 202 CKSOYB103K50 D 7 8 Inductor LCTE1R7K CTC1107 C 516 A 7,µF/16V CCH1165 C 520 503 509 535 CKSOYB103K50 D 6 21 202 CKSOYB103K50 D 7 8 Inductor LAU4R7K LAU150K C 510 512 CKSOYB103K50 D 7 8 Inductor LAU4R7K C 520 503 509 509 509 509 509 509 509 509 509 509	C 477 482				CKSQYB104K50						
C 483 484	C 478 501 508	517 519 F	527 529 5	590 982	CKSOYB103K50	· ·	3				33K203
C 594 486 507 513 992											
C 504 651 972 974 991 C 505 C CSCH101J50 C CSCH105 512 C CSCH105 C CSCH10						_	-				
C 505 C 506 C 507 S 508 C CCSCH101J50 C CKSYB103K50 L 2 2 4 CTC110B C CTC11								Я			
C 506 C 502 503 509 535	C 504 051 572	374 331			0100210470100			_			
C 502 503 509 535 CKSQYB223K50 L 3 4 Inductor LCTERRX CTC1105 C 516 4.7μF/16V CCH116S C 518 4.7μF/16V CCH116S C 520 CKLSR473K16 L 201 Ferri-Inductor LAU4R7K C 518 4.7μF/16V CCH116S C 522 591 CEA220M10LL L 203 Inductor CTF1287 C 523 CKSQYB104K50 L 208 Inductor LAU300K C 524 525 CCSQCH150J50 CKSYB32K50 T 31 Coll CTE1116 C 530 536 CKSYB32K50 T 51 Coil CTE1116 C 530 536 CKSYB32K50 T 51 Coil CTE1116 C 530 536 CKSYB3103K50 CF 51 52 53 Ceramic Filter CTF1280 C 522 591 CCSQCH101J50 CF 232 Ceramic Filter CTF1280 C 530 536 CKSYB308K50 T 51 Coil CTC1136 C 531 CCSQCH101J50 CF 51 52 53 Ceramic Filter CTF1280 C 530 536 CKSYB308K50 T 51 Coil CTC1136 C 531 CCSQCH101J50 CF 51 52 53 Ceramic Filter CTF1280 C 532 CCSQCH101J50 CF 232 Ceramic Filter CTF1280 C 530 536 CKSYB308K50 CF 232 Ceramic Filter CTF1280 C 531 552 CCSQCH101J50 CF 232 CEramic Filter CTF1280 C 532 CCSQCH101J50 CF 232 CERAMIC RESISTORS C 531 CCSQCH101J50 CF 232 CERAMIC RESISTORS C 532 CCSQCH101J50 CF 232 CERAMIC RESISTORS C 533 CKSYB473K50 R 1 2 CRSYB473K50 CEA320M10LL RESISTORS C 573 CKSYB473K50 R 5 RS1/16S22 C 605 CKSYB473K50 R 5 RS1/16S22 C 981 CCSQCH101J50 R 4 RS1/16S26 C 993 CEAAR7M35LL R 6 10 202 RS1/16S26 C 993 CEAAR7M35LL R 7 247 RS1/16S26 C 993 CEAARTM35LL R 7 247 RS1/16S26 C 993 CEACR C 90 20 20 20 20 20 20 20 20 20 20											01/0050
C 510 512 CKSQYB223K50 L 5 Ferri-Inductor LAU150K C 516 A.7μF/16V CCH1165 L 201 Ferri-Inductor LAU150K C 518 A.7μF/16V CCH1185 L 201 Ferri-Inductor LAU350K C 522 591 CCSQCH100LL L 203 Inductor CTF1287 CKSQYB104K50 L 208 Inductor LAU378X Induct		E2E									
C 516		535							Induct	or	LCTB2R2K2125
C 516											
C 518	0 510	47	FISCNI		CCUITEE	L 5	1		Ferri-l	nductor	LAU150K
C 520						L 20	1		Ferri-l	nductor	LAU4R7K
C 523 CKSQYB104K50 L 208 Inductor LAU121K LAU3R3J CS 524 525 CCSQCH150J50 CKSYB332K50 T 31 Coll CTE1116 C530 536 CKSYB332K50 T 51 Coil CTE1116 C530 536 CKSQYB103K50 CF 51 52 53 Ceramic Filter CTF1290 CKSQYB103K50 CF 232 Ceramic Filter CTF1290 CKSQYB103K50 CF 232 Ceramic Filter CTF1290 CKSQYB473K50 CF 232 Ceramic Filter CTF1348 CCSQCH101J50 CF 51 52 53 Ceramic Filter CTF1348 CEAR22M50LL X 251 Ceramic Filter CTF1348 CEAR22M50LL X 251 Ceramic Filter CTF1348 CEAR22M50LL VR 154 Semi-fixed 68kQ(B) CCP1211 CEAR22M50LL VR 154 Semi-fixed 68kQ(B) CCP1211 CEAR230M10LL RESISTORS C 573 CKSYB104K50 R 1 2 RS1/16S22 C 605 CKSQYB473K50 R 5 RS1/16S22 C 606 CKSQYB473K50 R 5 RS1/16S22 C 6961 CKSQYB473K50 R 7 247 RS1/16S25 C 6961 CKSQYB473K50 R 7 247 RS1/16S30 C 993 CEAAM7M35LL R 6 10 202 RS1/16S30 C 993 CEAAM7M35LL R 11 RS1/16S12 C 993 CEAAM7M35LL R 11 RS1/16S12 C 993 CEAAM7M35LL R 11 RS1/16S12 C 993 CEAAM7M35LL R 11 RS1/16S27 C 993 CEAAM7M35LL R 11 RS1/16S30 C 993 CEAM7M35LL R 11 RS1/16S30 C 993 CEAM7M35LL R 11 RS1/16S30 C 993 CEAM7M35LL R 11 RS1/16S27 C 993 CEAM7M35LL R 11 RS1/16S30 C 993 CEAM7M35LL R 11 RS1/16S30 C 993 CEAM7M35LL R 11 RS1/16S27 C 983 CEAM7M35LL R 11 RS1/16S27 C 983 CEAM7M35LL R 11 RS1/16S27 C 993 C 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2											
C 524 525 CCSQCH150J50 T 31 COII CTE1116 C 530 536 CKSYB33ZK50 T 51 COII CTE1116 C 530 536 CKSYB103K50 T 51 COII CTC1136 C 531 CCSQCH101J50 CF 51 52 53 Ceramic Filter CTF1290 C 532 CKSQYB103K50 CF 232 Ceramic Filter CTF1290 C 539 CKSQYB103K50 CF 232 Ceramic Filter CTF1348 C 539 CKSQYB103K50 CF 232 Ceramic Filter CTF1348 C 551 553 554 CEAR2ZM50LL X 231 Crystal Resonator 920.5kHz CSS1365 C 552 CEAR2ZM50LL VR 154 Semi-fixed 68kΩ(B) CCP1211 C 555 CSC CEAR2ZM50LL R 231 Crystal Resonator 10.26MHz CSS1111 C 555 CCF CSQCH101J50 R 4 RS1/16S22 C 605 CCSQCH101J50 R 4 RS1/16S32 C 605 CCSQCH101J50 R 4 RS1/16S32 C 652 CCSQCH101J50 R 4 RS1/16S32 C 696 CCSQCH101J50 R 4 RS1/16S32 C 6971 470μF/16V CCH-114 R 8 8 17 RS1/16S32 C 981 CCA331M10 R 11 RS1/16S42 C 983 CCA101M16LL R 9 RS1/16S32 C 983 CCA101M16LL R 13 RS1/16S52 C 993 CCA101M16LL R 13 RS1/16S52 C 983 CCA101M10LS R 15 RS1/16S52 C 983 CCA101M10LS R 15 RS1/16S52 C 983 CCA101M16LL R 13 RS1/16S52 C 983 CCA101M16LL R 13 RS1/16S52 C 983 CCA101M16LL R 13 RS1/16S52 C 983 CCA101M16LL R 15 RS1/16S52 C 983 CCA101											
C 524 525 C 526 CKSVB332K50 C 530 536 CKSVB332K50 C 531 Coil CTE1116 C530 536 CKSQVB103K50 C 531 CCF 51 52 53 CF 51 52 52 CF 51 52 53 CF 51 52 52 CF 51 52 53 CF 51 52 53 CF 51 52 52 CF 51 52 53 CF 51 52 52 CF 51 52 53 CF 51 52 53 CF 51 52 52 CF 51 52 53 CF 51 52 53 CF 51 52 52 CF 51 52 53 CF 51 52 52 CF 51 52 53 CF 51 52 52 CF 51 52 53 CF 51 52 52 C	C 523				CKSQYB 104K50						
C 530 536 CKSQYB103K50 T 51 Coll CTC1136 CF 531 S2 53 Ceramic Filter CTF1348 CKSQYB103K50 CF 232 Ceramic Filter CTF1348 CKSQYB103K50 CF 232 Ceramic Filter CTF1348 CKSQYB473K50 CEAR22M50LL X 231 Ceramic Filter CTF1348 CEAR22M50LL VR 154 Semi-fixed 68kΩ(B) CCP1211 CEAR22M50LL VR 154 Semi-fixed 68kΩ(B) CCP1211 CCP1211 CC 552 CKSQYB473K50 RESISTORS CKSQYB473K50 R 1 2 RS1/16S22 CKSQYB473K50 R 1 2 RS1/16S25 C 605 CCSQCH101J50 R 4 RS1/16S15 C 606 CKSQYB473K50 R 5 RS1/16S25 C 652 CEA4R7M35LL R 6 10 202 RS1/16S25 CEA4R7M35LL R 6 10 202 RS1/16S25 C 6961 CKSQYB473K50 R 7 247 RS1/16S15 C 973 CEA4R7M35LL R 6 10 202 RS1/16S25 C 981 CEA4S31M10 R 11 RS1/16S25 C 993 CEA101M10LL R 9 RS1/16S25 C 993 CEA101M10LL R 13 RS1/16S25 C 993 CEA101M10LL R 13 RS1/16S25 C 993 CEA101M10LS R 15 RS1/16S25 C 993 CEA101M10LS R 15 RS1/16S25	C 524 525				CCSQCH150J50		•				
C 531 C C 532 C C C C C C C C C C C C C C C C C C C											
C 532 CKSQYB473K50 C 539 CKSQYB473K50 C 551 553 554 CEAR22M50LL C 552 C 571 CEAR30M10LL C 556 C 606 C 606 C 606 C 606 C 606 C 652 C 6961 C 6								53		ic Filter	
C 539 CKSQYB473K50 CEAR22M50LL X 231 Crystal Resonator 10.26MHz CSS1111 CEAR22M50LL VR 154 Semi-fixed 68kΩ(B) CCP1211 CEAR22M50LL VR 154 Semi-fixed 68kΩ(B) CCP1211 CEAR30M10LL RESISTORS C 571 C 573 CKSYB104K50 R 1 2 RS1/16S12 CSS066 CKSQYB473K50 R 5 SEMI-fixed CSS071851 CKSQYB473K50 R 5 SEMI-fixed CSS071851 CKSQYB473K50 R 7 247 RS1/16S12 CSS073 CEAR7M35LL R 6 10 202 RS1/16S22 CKSYB473K50 R 7 247 RS1/16S12 CSS073 CEAR01M10LL R 9 RS1/16S22 CKSYB473K50 R 11 RS1/16S12 CSS073 CEAR01M10LL R 9 RS1/16S33 CSS073 CEAR01M10LL R 9 RS1/16S33 CSS073 CEAR01M10LL R 9 RS1/16S33 CSS073 CEAR01M10LL R 13 RS1/16S32 CSS073 CEAR01M10LL R 13 RS1/16S33 RS1/16S47 CSS073 CEAR01M10LL R 13 RS1/16S33 RS1/16S33 CSS073 CEAR01M10LL R 13 RS1/16S33 RS1/16S3					* * * * * * * * * * * * * * * * * * * *						
C 551 553 554 CEAR22M50LL X 231 Crystal Resonator 10.26MHz CSS1111 C 552 C 556 3300μF/16V CCH-1150 C 571 CCA330M10LL RESISTORS C 573 C C 605 C CSQCH101J50 R 4 RS1/16S15 C 606 C CKSQYB473K50 R 5 RS1/16S22 C 961 C CKSQYB473K50 R 7 247 RS1/16S22 C 961 CCH-114 R 8 17 RS1/16S15 C 973 CEA4R7M35LL R 6 10 202 RS1/16S22 C 973 CEA101M10LL R 8 17 RS1/16S33 C 983 C CHA114 R 9 RS1/16S47 C 983 C C 983 C CEA101M16LL R 13 RS1/16S47 C 983 C CEA101M16LL R 13 RS1/16S47 C 993 CEA101M10LS R 15 RS1/16S27 C 981 C R 10 R 11 RS1/16S47 C 983 C R 10 R 11 R 13 RS1/16S47 C 983 C R 10 R 11 R 13 RS1/16S47 C 983 C R 10 R 11 R 13 RS1/16S47 C 983 C R 10 R 11 R 13 RS1/16S47 C 983 C R 10 R 11 R 13 RS1/16S47 C 983 C R 10 R 13 RS1/16S47 C 984 R 16 R 18 RS1/16S47 C 985 R 17 RS1						X 15	1		Ceram	ic Resonator 920.5kHz	CSS1365
C 552 CCH1150 CCH1150 CCH330M10LL RESISTORS C 573 CKSYB104K50 R 1 2 RS1/16S22 CSOCH101J50 R 4 RS1/16S15 CKSYB473K50 R 5 RS1/16S15 CKSQYB473K50 R 7 247 RS1/16S15 CKSYB473K50 R 7 247 RS1/16S15 CH311 RS1/16S15 RS1/16S27 CH311 RS1/16S27 CH311 RS1/16S27 RS1/16S27 RS1/16S27 RS1/16S27 RS1/16S23 RS1/16S23 RS1/16S23 RS1/16S23 RS1/16S25 RS1						V 22	4		Ceueta	December 10 26MHz	CSS1111
C 556 3300μF/16V CCH1150 CEA330M10LL RESISTORS C 573 CKSYB104K50 R 1 2 RS1/16S22 CCSQCH101J50 R 4 RS1/16S15 CKSQYB473K50 R 5 RS1/16S15 CKSQYB473K50 R 5 CEA4R7M35LL R 6 10 202 RS1/16S22 CKSYB473K50 R 7 247 RS1/16S15 CSYB473K50 R 7 247 RS1/16S15 CSYB473K50 R 7 247 RS1/16S15 CSYB473K50 R 7 147 RS1/16S15 CSYB473K50 R 7 15 RS1/16S15 CSYB473K50 R 7 11 RS1/16S15 CSYB473K50 R 11 RS1/16S15 R 11		•									
C 573 C CKSYB104K50 R 1 2 RS1/16S22 C CSQCH101J50 R 4 RS1/16S12 C 606 C CKSQYB473K50 R 5 RS1/16S33 C 652 C CEA4R7M35LL R 6 10 202 RS1/16S12 C 961 C CKSYB473K50 R 7 247 RS1/16S12 C 971 470μF/16V C CH-114 R 8 17 RS1/16S12 C 973 C CEA101M10LL R 9 RS1/16S47 C 981 C CEA3331M10 R 11 RS1/16S12 C 983 C CEA101M16LL R 13 RS1/16S12 C 993 C CEA101M16LL R 13 RS1/16S27 C 993 C CEA101M10LS R 15 RS1/16S27 C RS1/16S27 C RS1/16S27 C RS1/16S27 C RS1/16S27 C RS1/16S27 C RS1/16S27 R 18 R 1	C 556	3300	DμF/16V		CCH1150						
C 605	C 571				CEA330M10LL	RESIS	IORS				
C 605	C 573				CKSYB104K50	R	1 2				RS1/16S225J
C 652 C 961 C CEA4R7M35LL R 6 10 202 RS1/16S22 C 961 CKSYB473K50 R 7 247 RS1/16S12 C 971 470μF/16V CCH-114 R 8 17 RS1/16S33 C 973 CEA101M10LL R 9 RS1/16S47 C 981 CEA331M10 R 11 RS1/16S12 C 983 CEA101M16LL R 13 RS1/16S12 C 993 CEA101M16LL R 13 RS1/16S27 C 993 CEA101M10LS R 15 RS1/16S27 C 991 CEA101M10LS R 15 RS1/16S27 C 101t Number : CWM4501 R 16 RS1/16S27 R 18 RS1/16S33 RS1/16S82	C 605				CCSQCH101J50	R	4				RS1/16S154J
C 961 CKSYB473K50 R 7 247 RS1/16S12 C 971 470μF/16V CCH-114 R 8 17 RS1/16S33 C 973 CEA101M10LL R 9 RS1/16S47 C 983 CEA331M10 R 11 RS1/16S46 C 993 CEA101M16LL R 13 RS1/16S56 C 993 CEA101M16LL R 13 RS1/16S56 CEA101M10LS R 15 RS1/16S10 Unit Number : CWM4501 Unit Name : Key Board Unit R 16 RS1/16S10 RS1/16S31 MISCELLANEOUS R 31 RS1/16S82								202			RS1/16S391J
C 971 470μF/16V CCH-114 R 8 17 RS1/16S33 C 973 CEA101M10LL R 9 RS1/16S47 C 981 CEAS331M10 R 11 RS1/16S16 C 983 CEA101M16LL R 13 RS1/16S56 C 993 CEA101M10LS R 15 RS1/16S27 Unit Number : CWM4501 R 16 RS1/16S33 Unit Name : Key Board Unit R 18 RS1/16S33 MISCELLANEOUS R 31 RS1/16S82								202			RS1/16S123J
C 973											
C 981 CEAS331M10 R 11 RS1/16S12 CEA101M16LL R 13 RS1/16S56 C 993 CEA101M16LL R 15 RS1/16S57 CEA101M10LS R 15 RS1/16S27 Unit Number : CWM4501 R 16 RS1/16S27 RS1/16S33 RS1/16S33 RS1/16S34 R 31 RS1/16S34 RS1/16S35 RS1/16S35 R 31 RS1/16S47 R 31 RS1/16S47 R 33 RS1/16S82 R 33 RS1/16S82		470	ıF/16V								RS1/16S332J
C 983							-				RS1/16S4/3J RS1/16S124J
Unit Number : CWM4501 R 16 RS1/16S10 Unit Name : Key Board Unit R 18 RS1/16S33 R 31 RS1/16S42 MISCELLANEOUS R 32 215 RS1/16S82 R 33 RS1/16S82					CEA101M16LL	R 1					RS1/16S563J
Unit Name : Key Board Unit R 18 RS1/16S33 R 31 RS1/16S47 MISCELLANEOUS R 32 215 RS1/16S82 R 33 RS1/16S82	C 993				CEA101M10LS	R 1	5				RS1/16S271J
Unit Name : Key Board Unit R 18 RS1/16S33 R 31 RS1/16S47 MISCELLANEOUS R 32 215 RS1/16S82 R 33 RS1/16S82	Unit Number + C	WM4501				R 1	6				RS1/16S104J
MISCELLANEOUS R 31 RS1/16S47 R 32 215 RS1/16S82 R 33 RS1/16S82			it								RS1/16S332J
R 33 RS1/16S82											RS1/16S470J
	MISCELLANEOUS	•									RS1/16S822J RS1/16S822J
	IC 901				PD6122A	., 3	-				
											RS1/16S331J
							-				RS1/16S271J RS1/16S560J
L 901 Inductor LCTB4R7K3216 R 55 RS1/16S10		Indu	ictor			R 5	5				RS1/16S102J
R 56 RS1/16S82						R 5	6				RS1/16S823J

====Circuit Symbol & No. Part Name=====	Part No.	=====Circuit Symbol & No. Part Name=====	Part No.
R 61	RS1/16S392J	C 103	CKSRYB682K25
R 62	RS1/16S273J	C 104	CEA2R2M50LL
R 101	RS1/16S272J	C 106	CCSRCH151J50
R 102	RS1/16S682J	C 151	CKSRYB472K50
R 103	RS1/16S333J	C 153 157	CEA3R3M50LL
R 104	RS1/16S334J	C 154	CKSQYB104K16
R 105	RS1/16S683J	C 158	CKSYB474K16
R 107	RS1/16S222J	C 159	CEA220M6R3LL
R 151	RS1/16S222J	C 161 209	CKSQYB104K16
R 152	RS1/16S393J	C 162	CEA3R3M50LL
R 239	RS1/16S104J	C 163	CKSRYB102K50
R 155	RS1/16S273J	C 170 202	CCSRCH100D50
R 156	RS1/16S243J	C 201 250	CCSRCH471J50
R 157	RS1/16S203J	C 203 235	CKSRYB332K50
R 160	RS1/16S222J	C 204 205 236 244	CKSQYB473K16
R 161	RS1/16S563J	C 206 233	CKSQYB104K16
R 162	RS1/16S105J	C 207	CCSRCH560J50
R 163	RS1/16S223J	C 211	CCSRCH101J50
R 203	RS1/16S225J	C 212	CEA470M6R3LL
R 204	RS1/16S103J	C 216	CCSRCH101J50
R 206	RS1/16S220J	C 217	CEA 1R5M50LL
R 207	RS1/16S101J	C 219	CCS RCH471J50
R 208 217	RS1/16S102J	C 220 230	CKS RYB103K25
F 209	RS1/16S471J	C 231	CCS RCH330J50
R 214	RS1/16S822J	C 232	CCS RCH150J50
R 231	RS1/16S272J	C 237	CCS RCH180J50
R 232	RS1/16S473J	C 239	CKS RYB472K50
R 237	RS1/16S103J	C 240 242	CEA R47M50LL
R 238	RS1/16S104J	C 243	CEA R33M50LL
R 239	RS1/16S104J	C 245	CKS RYB183K25
R 240 R 241 R 243 R 244	RS1/16S332J RS1/16S202J RS1/16S183J RS1/16S472J	C 246 Unit Number : CWX1889 Unit Name : Control Unit	CKS QYB473K16
CAPACITORS		MISCELLANEOUS	
C 1 C 2 C 4 C 6	CCSQCH060D50 CCSRCH020C50 CCSRCH820J50 CCSRCH820J50 13 CKSRYB103K25	IC 101 IC 201 IC 301 IC 302 IC 601	UPC 2572GS UPD 63702GF XLA 6997FP XRA 6285FP TA2 063F
C 9 34 56 152 160 241	CKSQYB104K16	IC 701	PQ0 5TZ51
C 10	CCSRCH0R5C50	© 101	2SD 1664
C 11	CEA010M50LL	Q 102	UMID2N
C 12 13 17 19 20	CKSRYB222K50	Q 601 602	2SD 1781K
C 14	CCSRCH220J50	Q 603	2SB 709A
C 15	CCSRCH060D50	D 601 D 701 702 D 801 802 LED X 201 Ceramic Resonator 16.93MHz S 801 802 Switch(Home, Clamp)	HA 151WA
C 16	CCSRCH080D50		1SR 154-400
C 21	CEA100M16LL		(L200IRX
C 22	CCSRTH090D50		(SS 1363
C 23	CCSRTH120J50		(SN 1028
C 24 C 26 C 32 C 33 C 36	CCSRCH471J50 CCSRCH101J50 CKSQYB472K50 CCSRCH050C50 CCSRRH201J50	RESISTORS R 101 R 102 R 103 R 104	651/85100J 651/85120J 651/165102J 851/165822J
C 51	CKSRYB223K25	R 105	151/165682J
C 54	CCSRCH470J50	R 106	151/165183J
C 55	CKSQYB223K25	R 107	151/165822J
C 57	CKSRYB472K50	R 108	151/165333J
C 58 234	CEA330M10LL	R 109	151/165683J
C 60 C 51 C 63 C 101 C 102	CKSRYB102K50 CKSRYB102K50 CEAR22M50LL CEA100M10NPLL CKSRYB182K50	R 110 R 111 R 112 R 113 114 607 R 115 R 116 117	151/165134J 151/165273J 151/165222J 151/165103J 151/165102J 151/165163J

====Circuit Symbol &	No. Part Name=====	Part No.
R 201 R 202 R 304 501 R 505 R 507		RS1/16S104J RS1/16S473J RS1/16S0R0J RS1/16S102J RA4C102J
R 508 R 510 R 601 602 R 603 604 R 605 606		RA4C681J RS1/10S0R0J RS1/16S102J RS1/16S223J RS1/16S162J
R 801 802		RS1/8S751J
CAPACITORS	·	
C 101 601 703 C 102 C 103 C 104 C 105		CEV101M6R3 CKSQYB104K16 CEV470M6R3 CKSYB334K16 CCSRCH330J50
C 106 304 C 107 603 604 C 108 C 109 C 110 202		CKSRYB103K25 CEV4R7M35 CKSQYB273K50 CCSRCH101J50 CKSQYB104K16
C 111 C 112 C 113 C 114 C 115		CKSRYB332K50 CKSQYB473K16 CKSRYB103K25 CKSRYB391K50 CCSRCH121J50
C 116 C 117 C 118 201 C 119 C 120 121 702		CKSRYB682K25 CKSRYB333K16 CKSYB334K16 CKSYB334K16 CKSYB334K16
C 122 124 C 123 C 125 C 126 C 127		CKSQYB104K16 CKSRYB472K50 CCSRCH060D50 CKSRYB153K25 CCSRCH102J25
C 203 C 303 C 305 306 C 502 C 602		CKSQYB104K16 CEV470M16 CKSRYB103K25 CKSRYB471K50 CKSQYB104K16
C 605 606 C 607 C 701 C 901 903 C 902	22μF/6.3V	CKSRYB152K50 CEV220M6R3 CCH1233 CCSRCH471J50 CCSRCH271J50
C 904		CCSRCH101J50
Unit Number : Unit Name :: Detecto	or PC Board	
Q 1 2	Photo Transistor	CPT-230S-X
Miscellaneous Parts Lis	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
M 1 M 2 M 3	PU Unit Motor Unit(Spindle) CRG Motor Unit(Carriage) Load Motor Unit(Loading)	CGY1070 CXA9100 CXA8986 CXA8702

● The DEH-52/UC, DEH-525/UC, DEH-523/ES, DEH-49/UC, DEH-42/UC, DEH-425/UC, DEH-323/ES, DEH-225/UC, and DEH-223/ES Parts Lists enumerate the parts which differ from those enumerated in the DEH-59/UC Parts List only. The parts other than those enumerated in the former are identical with those in the latter, to which you are requested to refer, accordingly. The DEH-59/UC Parts List is given on page 23.

Tuner Amp Unit

<u> Funer Amp Ur</u>							I	T		L
	DEH-59/UC	DEH-52/UC	DEH-525/UC	DEH-523/ES	DEH-49/UC	DEH-42/UC	DEH-425/UC	DEH-323/ES	DEH-225/UC	DEH-223/ES
Circuit Symbol & No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
C961	TPD1018F	*****	*****	*****		*****		••••	*****	*****
2421	FMG3A	20000	FMG3A	FMG3A	FMG3A	*****	FMG3A		1	ı
0423	DTA124ES	*****	DTA124ES	DTA124ES	DTA124ES	******	DTA124ES	*****	*****	*****
2432	FMG3A	*****	FMG3A	FMG3A	FMG3A	*****	*****	*****	•••••	*****
2631	2SC2458	*****		2SC2458	20000	*****	*****	*****	04400	*****
0632	FMC2A	00000	*****	FMC2A	*****	****		*****	03000	
2641	DTC114ES	*****		••••	DTC114ES	*****	*****	****	****	*****
0611,612	1SR139-200	*****	•••••	••••	00000	****	*****	*****	*****	*****
0631,632	1SR139-200			1SR139-200	*****	*****	*****	00000	*****	*****
0633	BR4361F	*****	••••	BR4361F	*****			*****	*****	*****
D657	HZS6LB2	HZS6LB2	HZS6LB2	HZS6LB2	HZS6LB2	HZS6LB2	HZS6LB2	HZS6LB2	*****	
D658,659,660	MA153	MA153	MA153	MA153	MA153	MA153	MA153	MA153	****	
BZ601	CPV1011	*****	*****	*****	CPV1011	*****				
.631	LAU2R2K	*****		LAU2R2K		00000		••••	*****	*****
R421,422	RS1/10S104J	*****	RS1/10S104J	RS1/10S104J	RS1/10S104J	****	RS1/10S104J	****	*****	
					004/4004001	34000			19401	
R433,434	RS1/10S102J	*****	RS1/10S102J	RS1/10S102J	RS1/10S102J	I				
R437,438	RS1/10S223J	•••••	RS1/10S223J	RS1/10S223J	RS1/10S223J	*****	*****			*****
R477	RS1/10S103J	*****	*****	RS1/10S103J	00000	*****		į	****	
R478	RS1/10S102J	*****	*****	RS1/10S102J				••••	ı	
R506	RS1/1050R0J	RS1/10S0R0J	RS1/10S0R0J	*****	RS1/10S0R0J	RS1/10S0R0J	RS1/10S0R0J	****	RS1/10S0R0J	
R602	RD1/4PU104J	RD1/4PU333J	RD1/4PU473J	RD1/4PU333J	RD1/4PU104J	RD1/4PU333J	RD1/4PU473J	RD1/4PU333J	RD1/4PU473J	RD1/4PU333J
R603	RS1/10S333J	RS1/10S473J	RS1/10S333J	RS1/10S104J	RS1/10S333J	RS1/10S473J	RS1/10S333J	RS1/10S104J	RS1/10S333J	RS1/10S104J
R625	RS1/10S0R0J	RS1/10S0R0J	RS1/10S0R0J	RS1/10S0R0J	*****	••••	•••••	*****	*****	*****
R626		*****		•••••	RS1/10S0R0J	R\$1/10S0R0J	RS1/10S0R0J	RS1/10S0R0J	*****	*****
R627	RS1/10S473J	R\$1/10S473J	RS1/10S473J	RS1/10S473J	****		*****	*****	RS1/10S473J	RS1/10S473J
R628	*****	****		****	RS1/10S473J	RS1/10S473J	R\$1/10S473J	RS1/10S473J	R\$1/10\$473J	RS1/10S473J
R630	RD1/4PU473J		*****	RD1/4PU473J	*****	*****			*****	*****
R631	RD1/4PU103J	*****	****	RD1/4PU103J	*****	10000			*****	
R632	RS1/8S223J	*****	••••	RS1/8S223J	*****	*****		*****		*****
R633	RS1/10S272J	*****	*****	RS1/10S272J	****	••••	*****	****	e2000	
0004	OD4/4DI (224 I	*****		RD1/4PU331J	20000	*****	*****	****	*****	
R634	RD1/4PU331J	•••••	••••	*****			*****	****		
R635	RD1/4PU103J RS1/10S202J	*****	••••	*****	RS1/10S202J		01000			
R641		•••••	*****		RD1/4PU102J	00000	*****			
R642 R958	RD1/4PU102J RD1/4PU102J	****	*****	RD1/4PU102J	*****	****		****		
				OF A SPANSES:	OF A ODOLASC' '		<u></u>			<u> </u>
C421,422	CEA3R3M50LL	*****	CEA3R3M50LL	CEA3R3M50LL	CEA3R3M50LL	*****	I			
C433,434	CEA100M16LL	*****	CEA100M16LL	CEA100M16LL	CEA100M16LL	*****				
C437,438	CCSQCH220J50	••••	CCSQCH220J50	CCSQCH220J50	CCSQCH220J50	*****	l		}.	
C490	CEA2R2M50LL	*****	10000	CEA2R2M50LL	*****	*****	****	CKCOADTOCK		CKCOVB103F
C511	*****	*****	*****	CKSQYB103K50	******	*****		CKSQYB103K50	•	CKSQYB103K
C651	CKSQYB473K50	CKSQYB473K50	CKSQYB473K50	CKSQYB473K50	CKSQYB473K50	CKSQYB473K50	CKSQYB473K50	CKSQYB473K50	i	*****
C961	CKSYB473K50				*****	••••	*****	*****	*****	*****

Key Board Unit

10 / 500.00			
	DEH-523/ES	DEH-323/ES	1
	DEH-525/UC	DEH-425/UC	
	DEH-52/UC	DEH-42/UC	DEH-223/ES
	DEH-59/UC	DEH-49/UC	DEH-225/UC
Circuit Symbol & No.	Part No.	Part No.	Part No.
10902	RPM-678CBR	****	*****
D901,902	DA204K	DA204K	*****
D903	MA3051L	MA3056L	MA3056L
LCD	CAW1329	CAW1330	CAW1330
R905	*****	RS1/10S0R0J	RS1/10S0R0J
R906	RS1/10S470J		••••
C005	CEA470M6R3LS	****	*****

9. LCD

- CAW1329 (DEH-59/UC, 52/UC, 525/UC, 523/ES)
- OCAW1330 (DEH-49/UC, 42/UC, 425/UC, 323/ES, 225/UC, 223/ES)

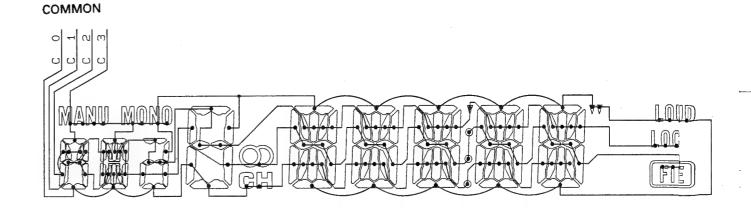


Fig. 5

10. BLOCK DIAGRAM

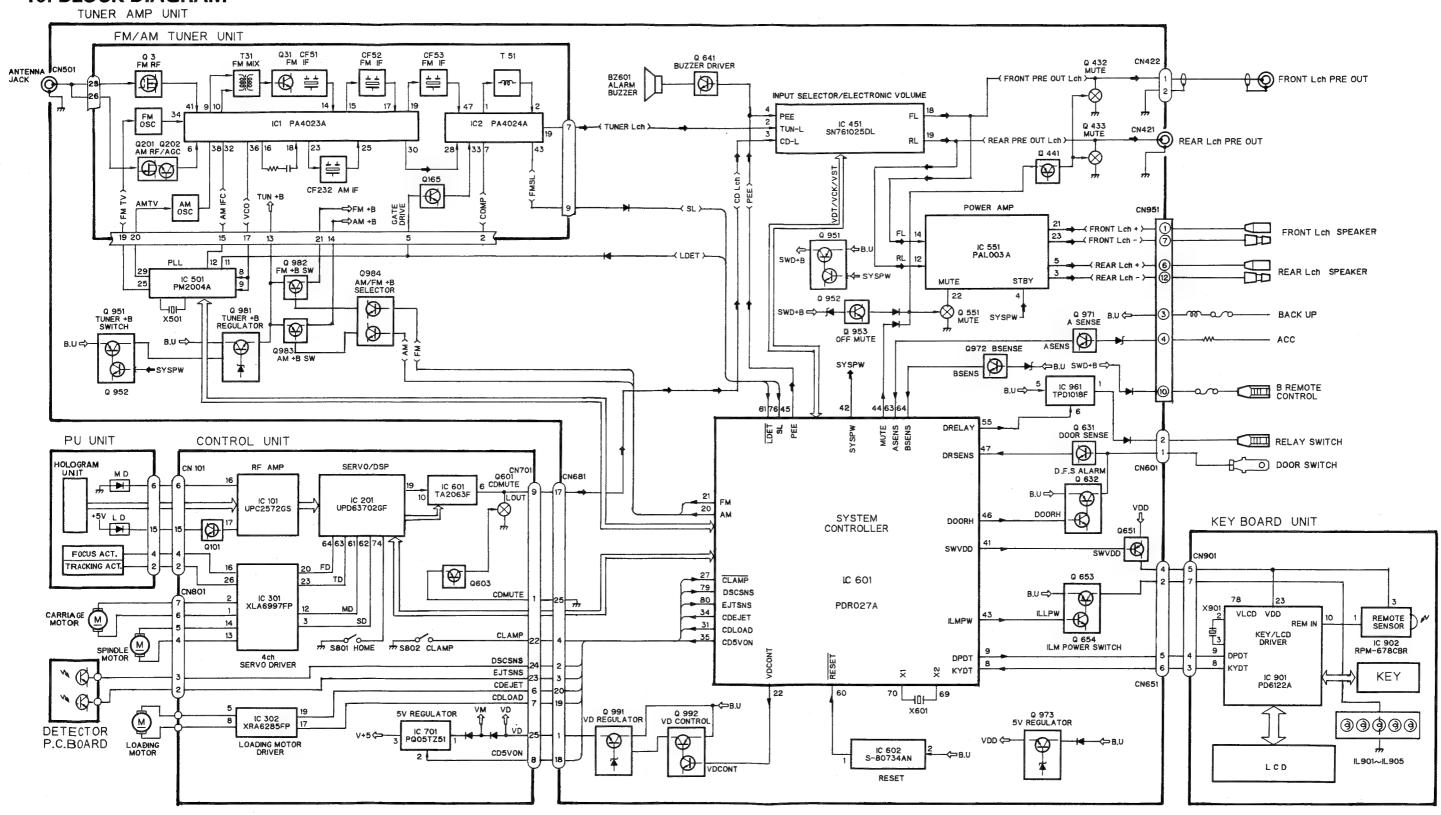
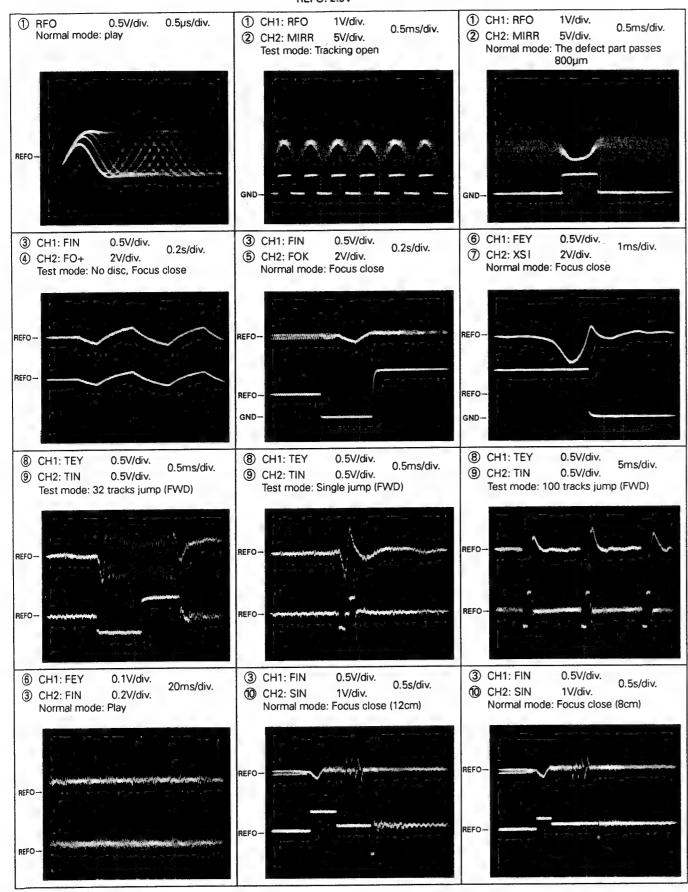


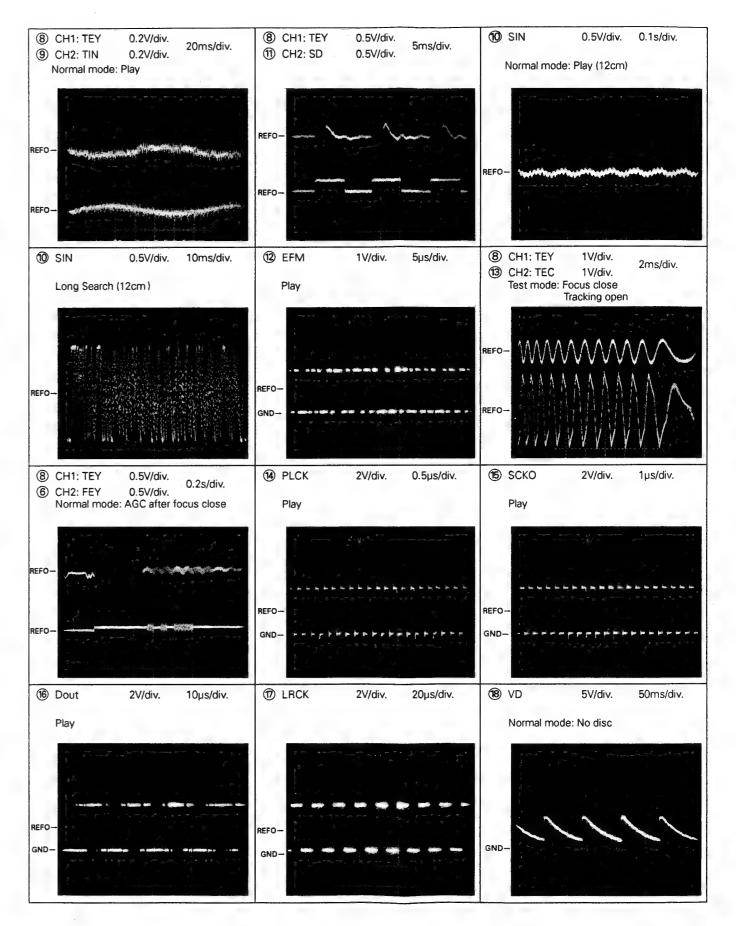
Fig. 6

Note: 1. The encircled numbers denote measuring pointes in the circuit diagram.

2. Reference voltage REFO: 2.5V

Waveforms





(19) (20)

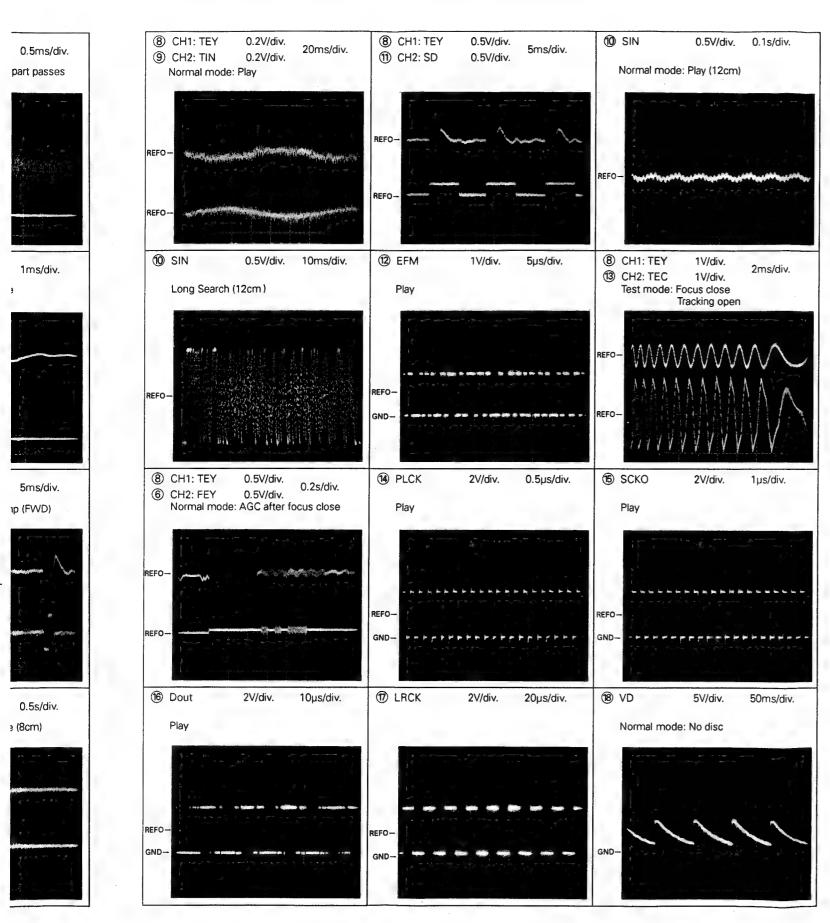
REFO-

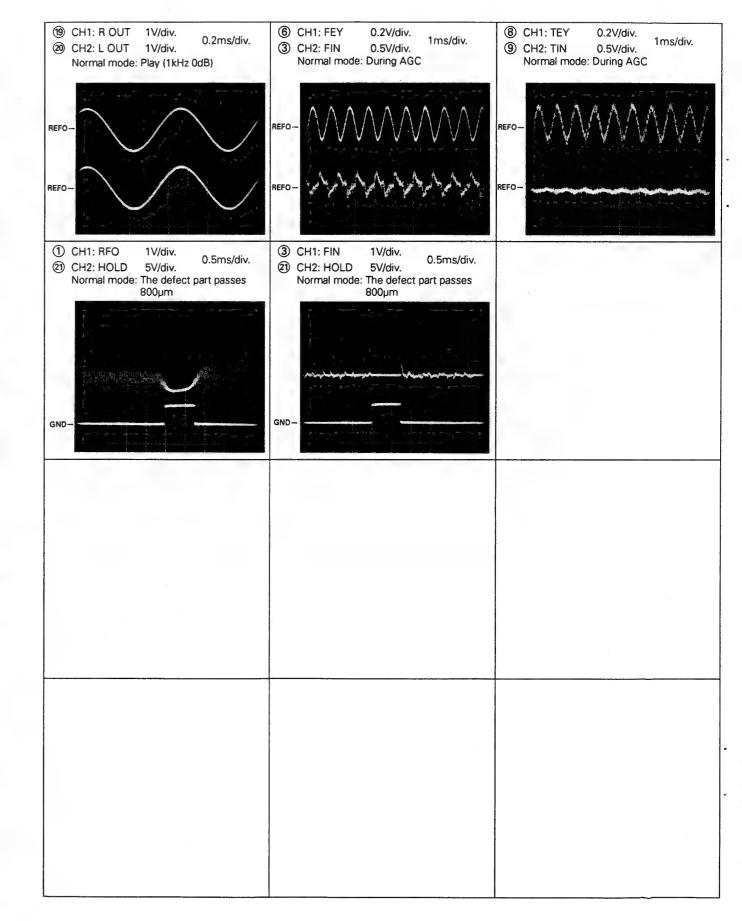
REFO-

1

21)

31

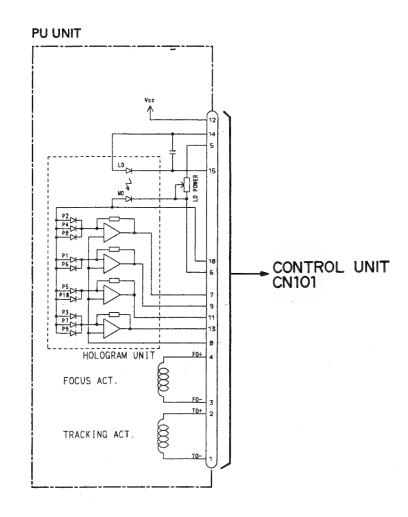


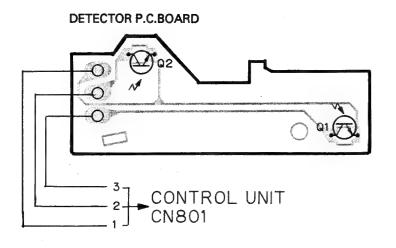


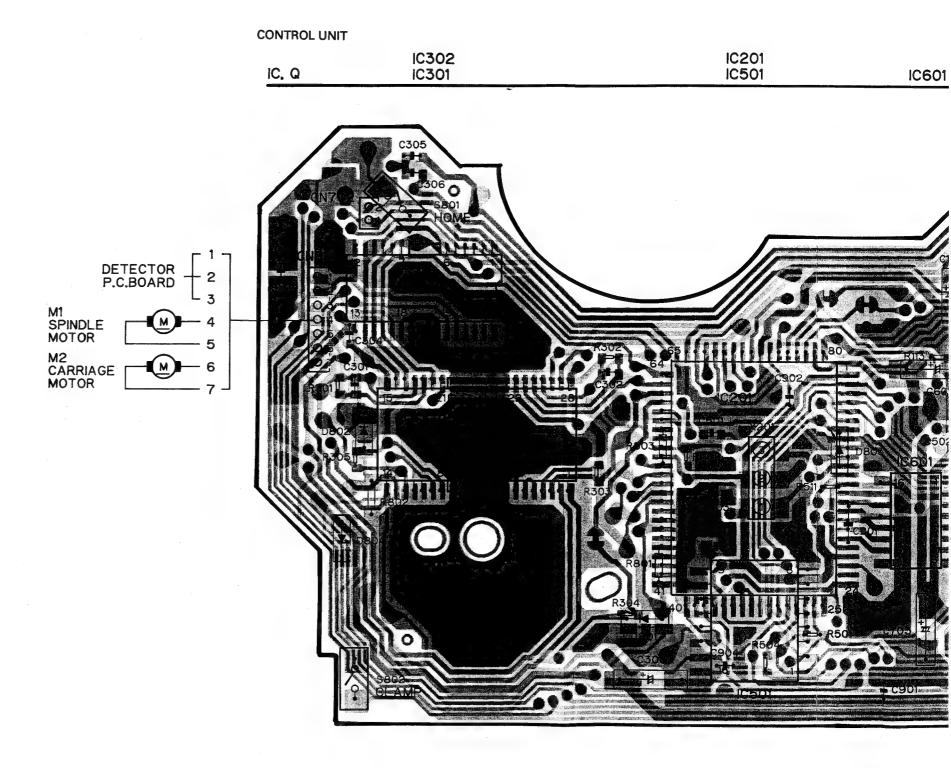
11. CIRCUIT DIAGRAM AND PATTERN

11.1 CD MECHANISM MODULE

Connection Diagram

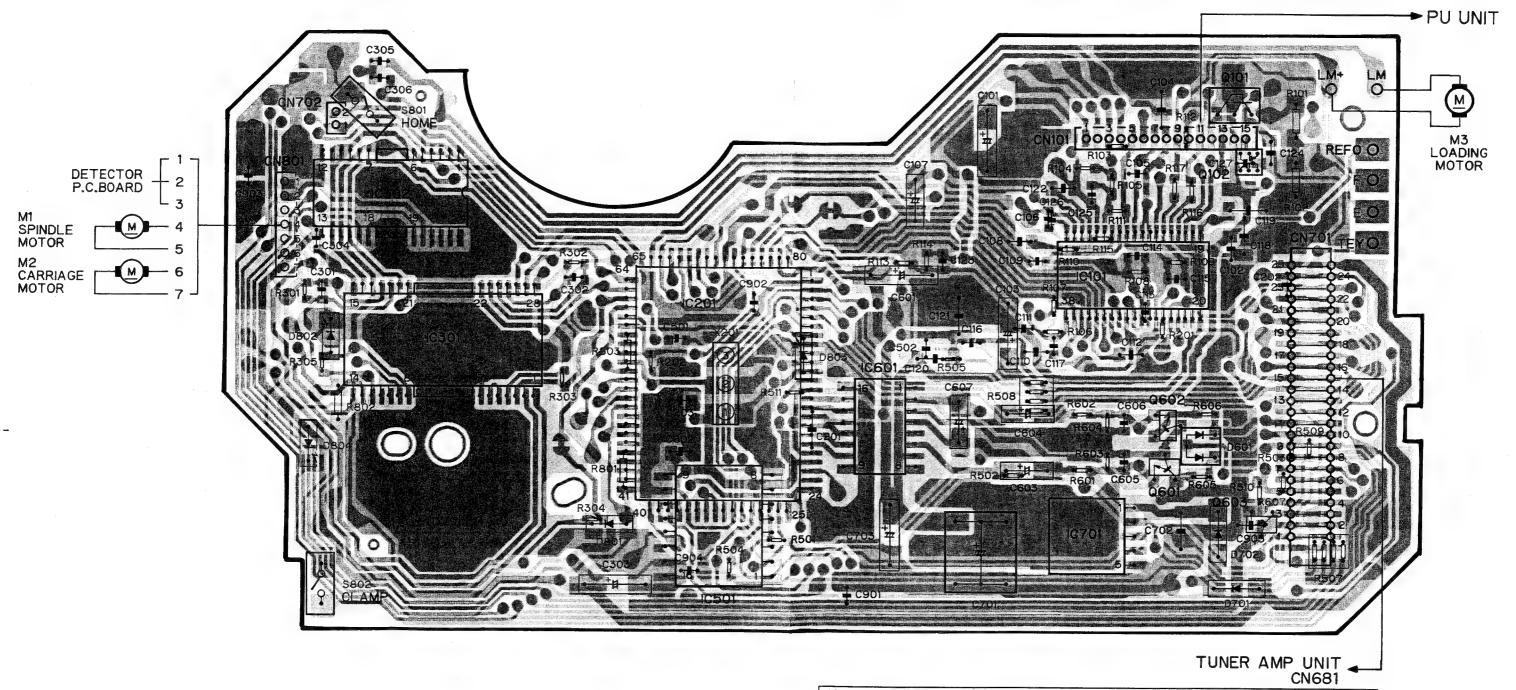






NOTE: The parts moun For further infor **CONTROL UNIT**

IC101 Q602 Q601 Q101 Q102 IC302 IC301 IC201 IC501 IC, Q IC601 Q603 IC701



NOTE:

The parts mounted on this PCB include all necessary parts for several destinations. For further information for respective destinations, be sure to check with the schematic diagram.

Fig. 7

CONTROL UNIT

S801:HOME SWITCHON-OFF

S802:CLAMP SWITCHON-OFF

The underlined indicates the switch position.

2

3

4

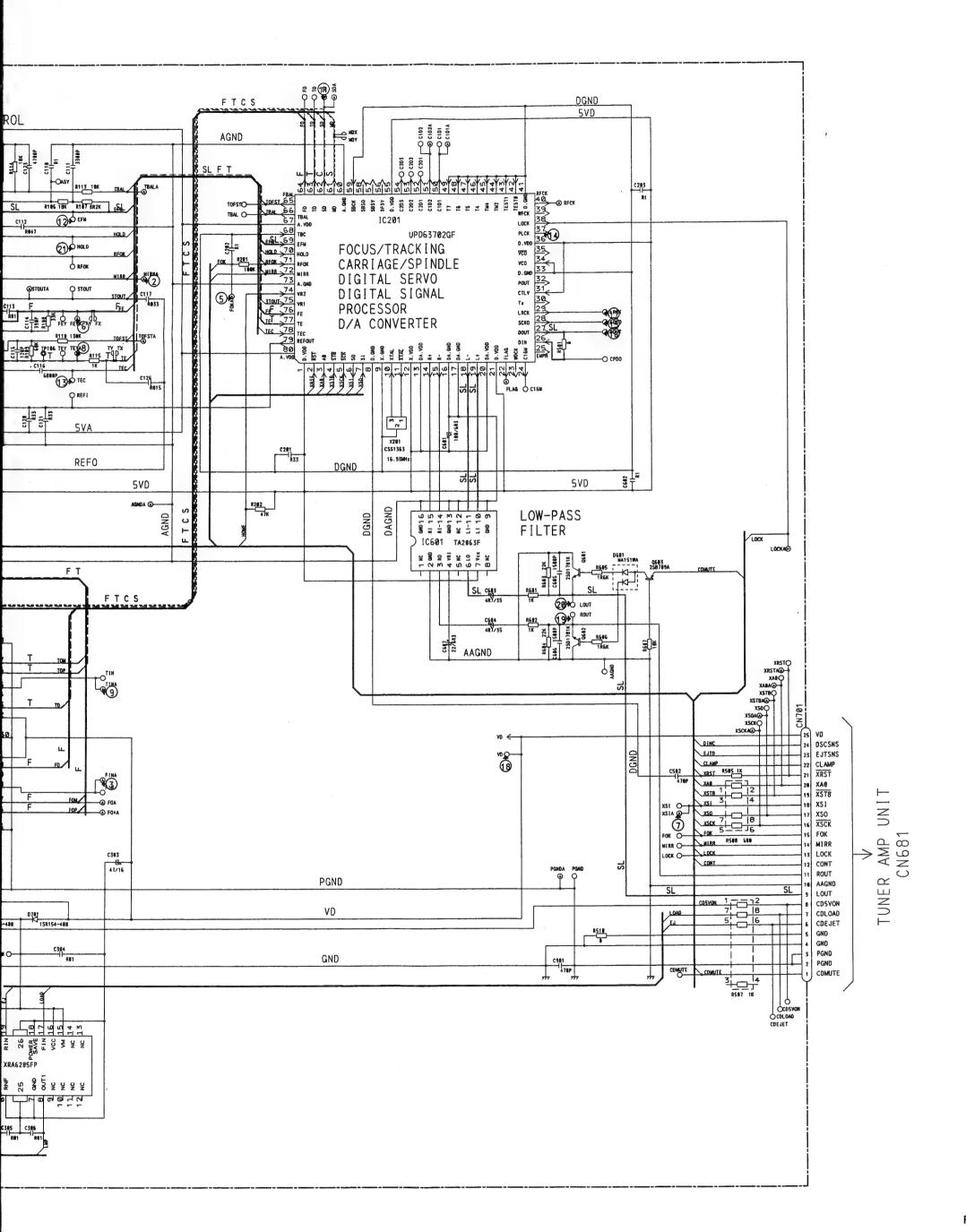
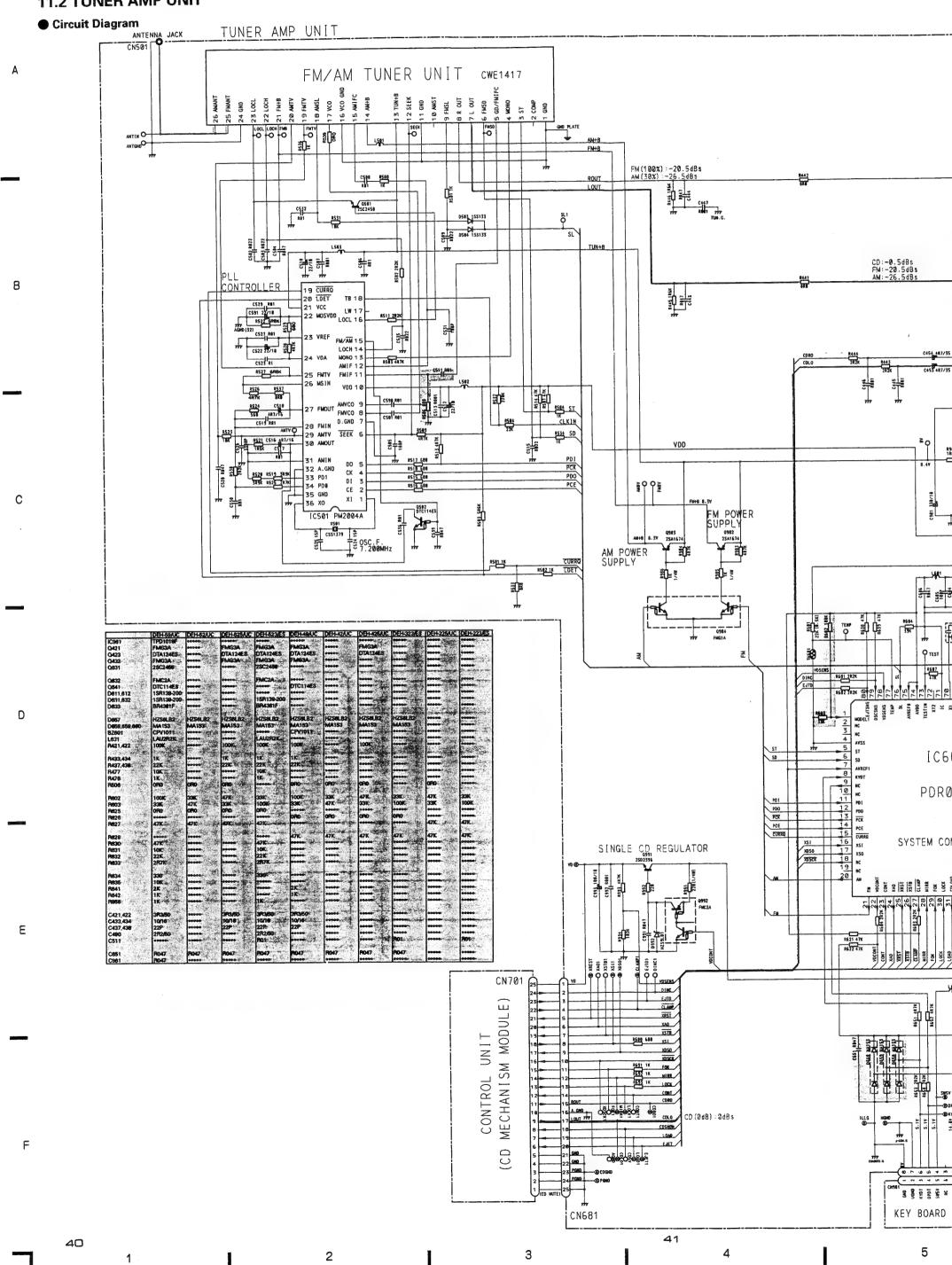
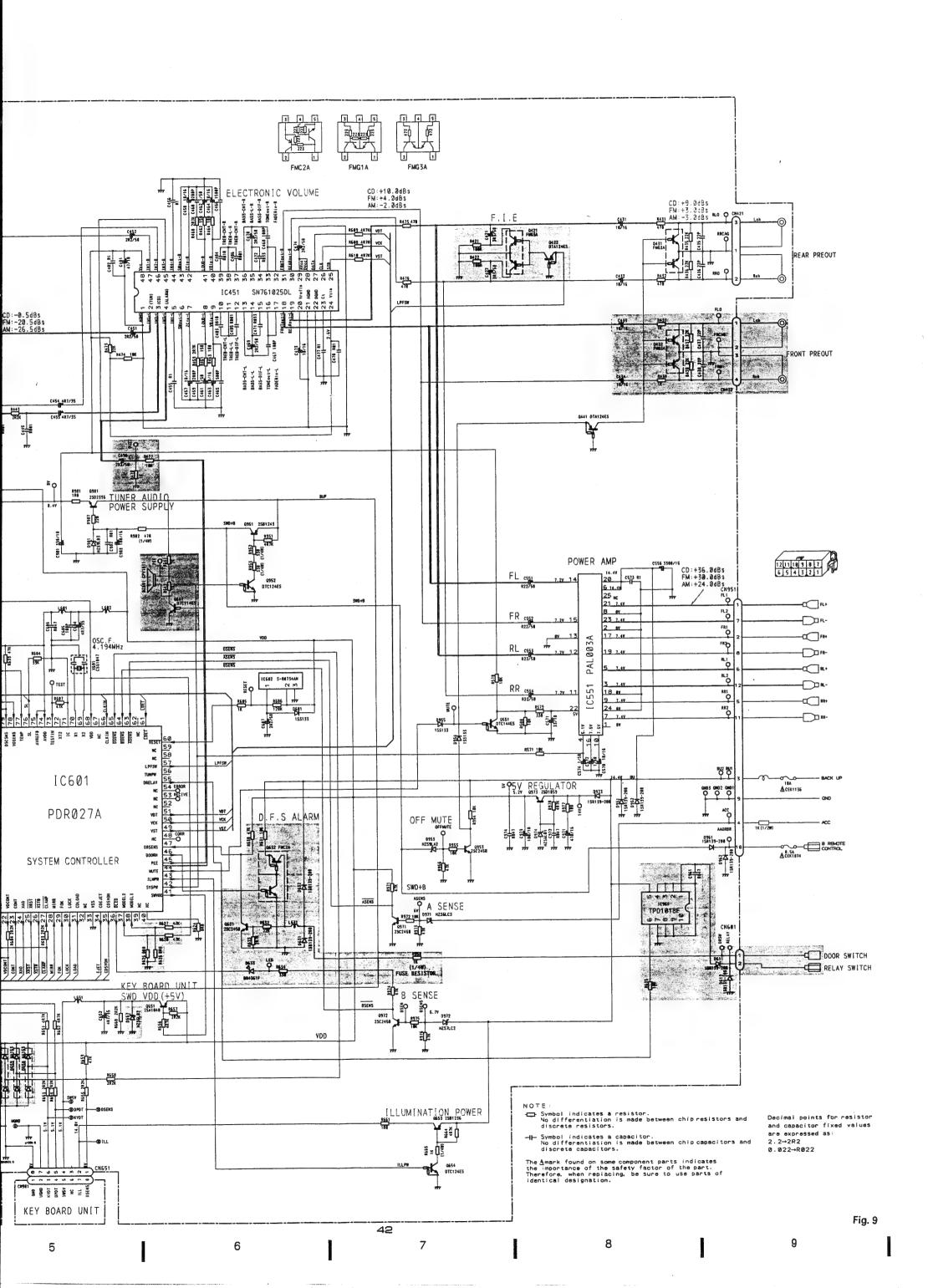
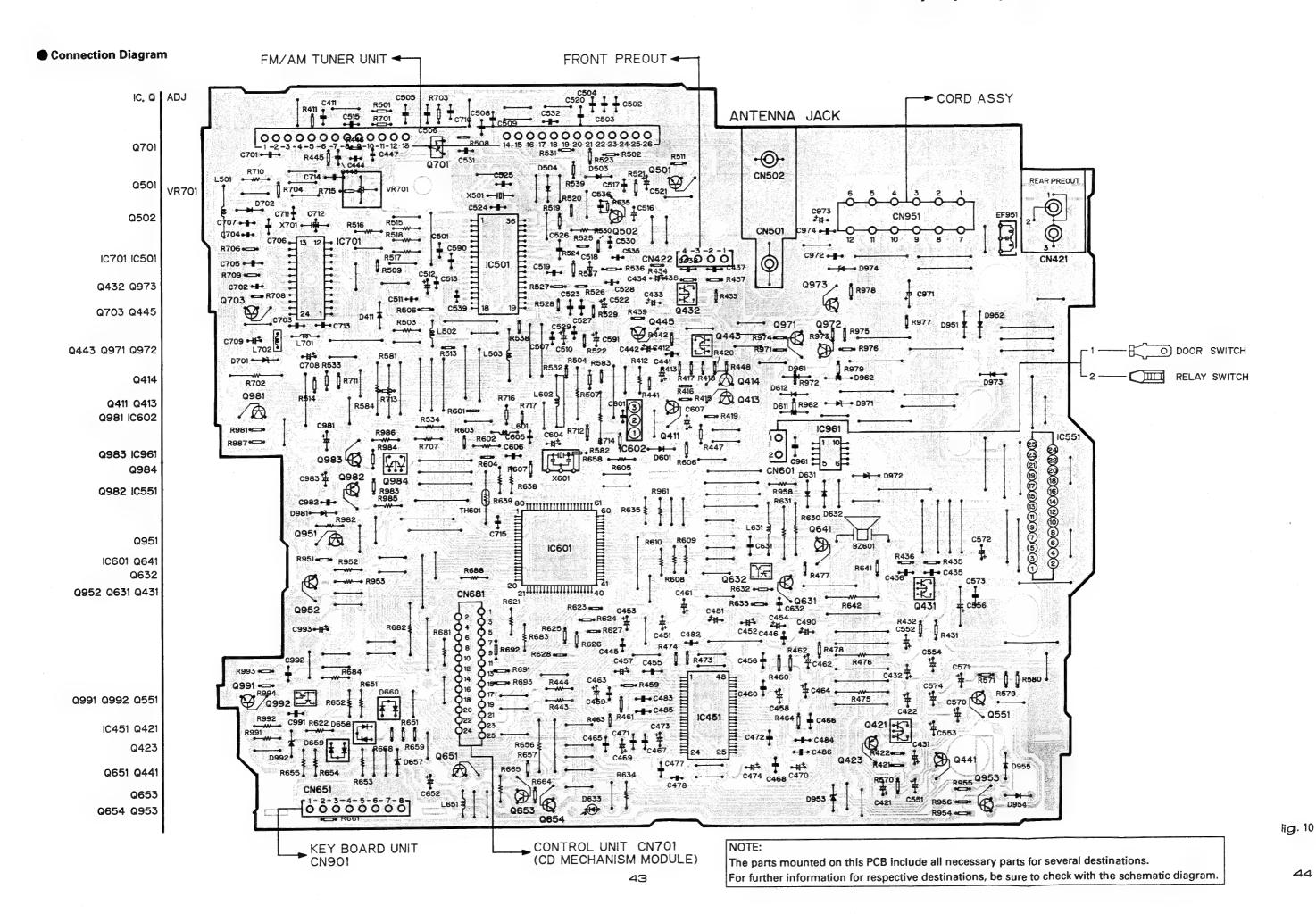


Fig. 8

11.2 TUNER AMP UNIT







11.3 KEY BOARD UNIT TUNER AMP UNIT CN651 KEY BOARD UNIT Circuit Diagram CN901 system R983 2R2K (1/BW) X981 CSS1312 10982 OSC.F. 4.97MHz R982 2R2K (178W) R981 2R2K (178W) VSS 60 SEG13 X1 59 SEG14 VDD X0 58 SEG15 KYDT 57 SEG16 DPDT MOD1 5 56 SEG17 MODØ 6 55 SEG18 CEL1341 IL982 CEL1341 IL983 CEL1341 本 54 SEG19 CLOCK KYDT 8 53 SEG20 MANU **KYDT** IC901 DPDT DPDT 9 52 SEG21 REMIN10 VDD S905 S918 5915 51 SEG22 DILM11 50 SEG23 PD6122A SILM12 49 SEG24 KD4 13 48 SEG25 IL 984 CEL 1341 KD3 14 47 SEG26 KEY CONTROLLER AND 5981 5986 5911 5916 <u>KD2</u> 15 46 SEG27 <u>KD1</u> 16 TL 985 CEL 1341 45 SEG28 LCD DRIVER SHIFT KS6 17 44 SEG29 KS5 18 43 SEG30 5982 S912 5917 KS4 19 42 SEG31 KS3 20 41 SEG32 KSZ KST VDD LOUD AF SOURCE LOCAL EJECT 5903 5988 5913 5918 Vel -TR,+ 5904 5989 S914 5919 R914 478 R913 478 R912 478 R911 478 S951 5952 DEH-523/ES | DEH-323/ES DEH-525/UC | DEH-425/UC - Symbol indicates a resistor.
No differentiation is made between chipresistors and DEH-223/ES DEH-225/UC DEH-42/UC DEH-49/UC DEH-52/UC Decimal points for resistor discrete resistors. DEH-59/UC and capacitor fixed values 10902 RPM-678CBR are expressed as: → Symbol indicates a capacitor. D901, 902 DA204K DA204K No differentiation is made between chip capacitors and 2.2→2R2 discrete capacitors. D903 MA3051L MA3056L MA3056L Ø.022→R022

Fig. 11

LCD

R905 R906

C905

CAW1329

47/6R3

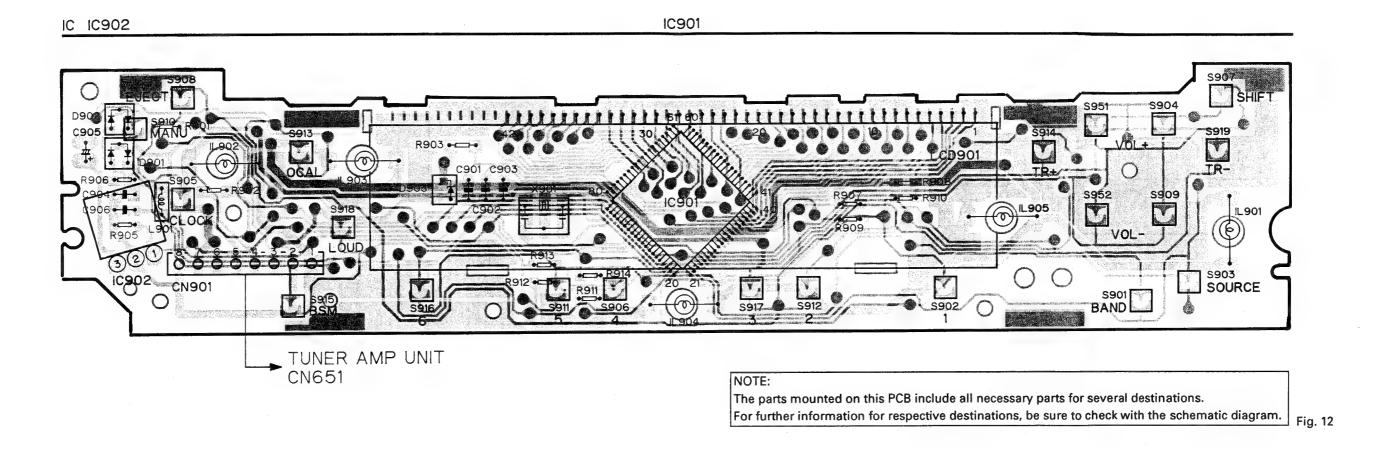
CAW1330

ØRØ

CAW1330

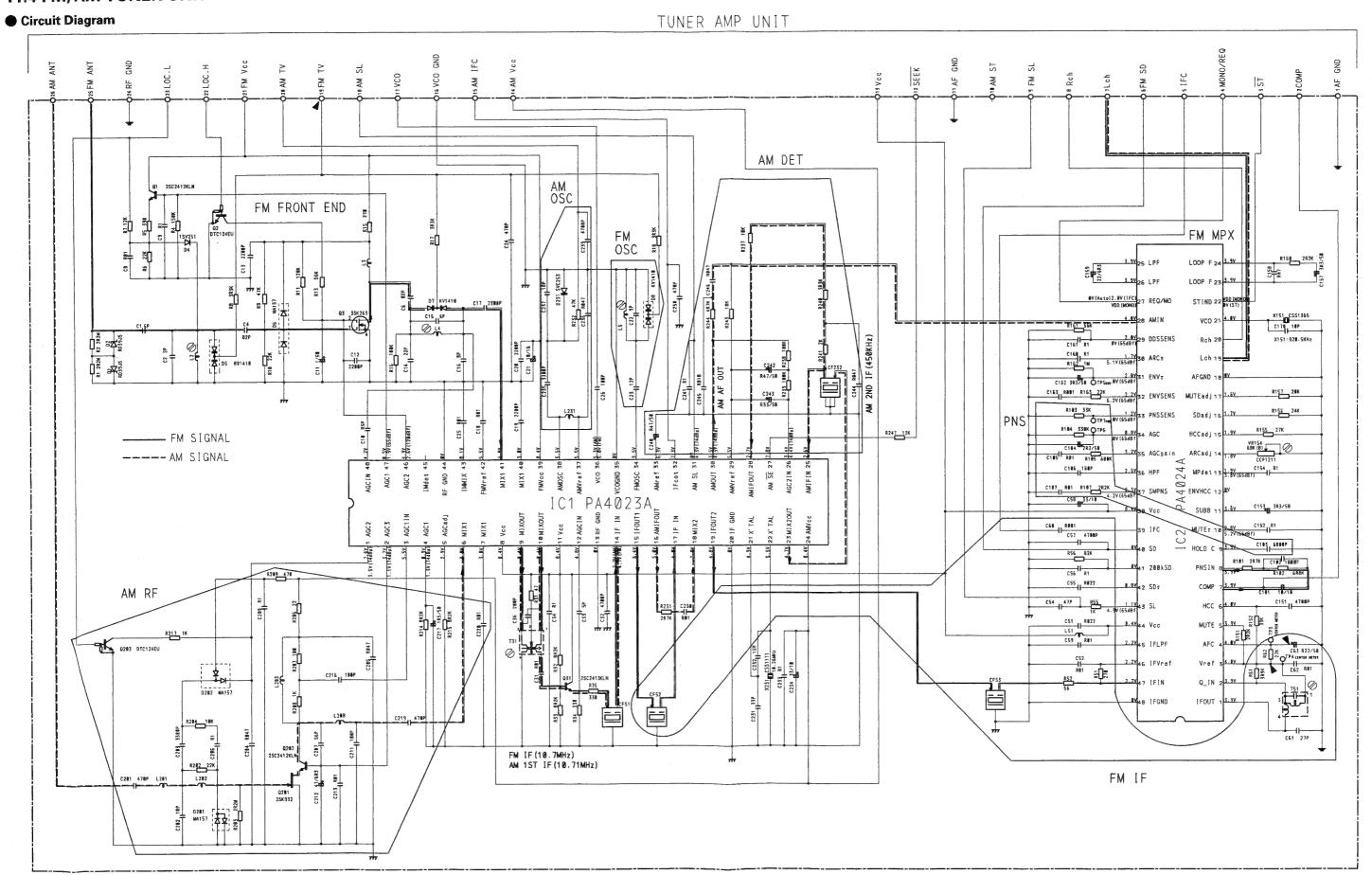
0R0

Connection Diagram



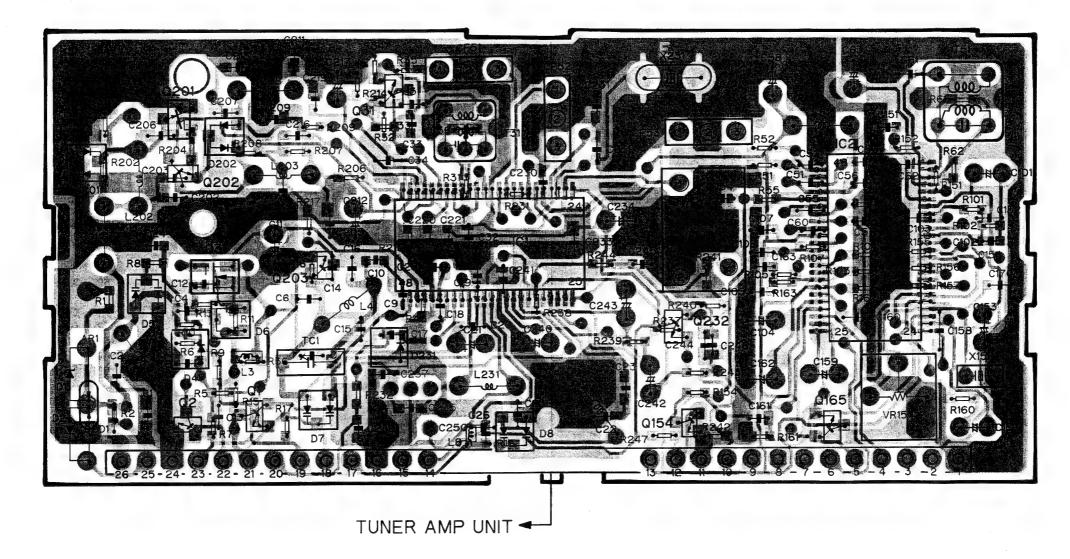
47

11.4 FM/AM TUNER UNIT



Connection Diagram

IC, Q	Q201 Q202 Q2	Q3 Q1	Q203	Q31	IC1		Q232 Q154	Q165	IC2		
ADJ	L2		TC1 L4		T31	L5			VR154	T51	



NOTE:

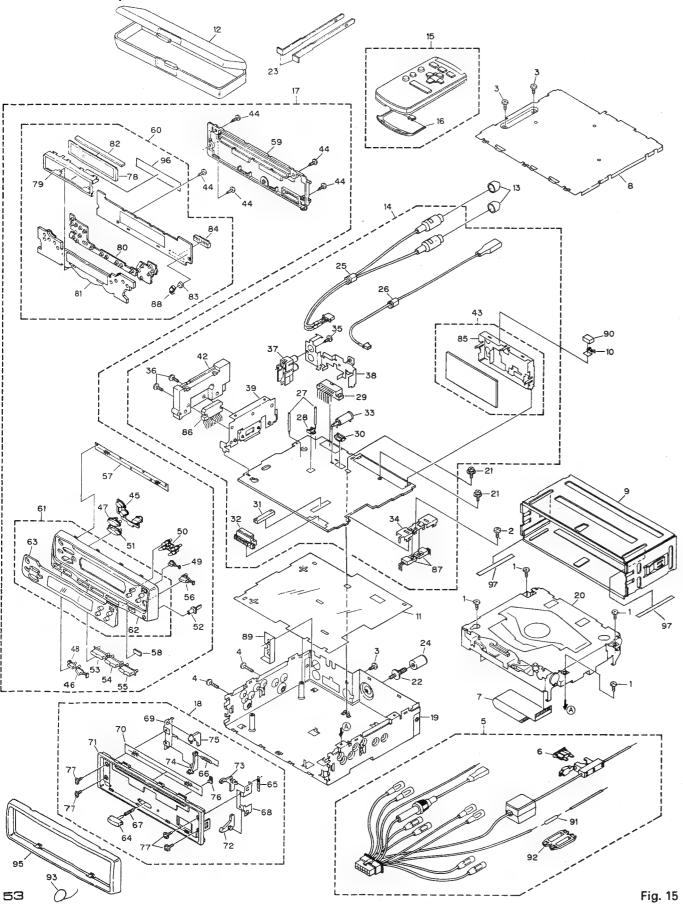
The parts mounted on this PCB include all necessary parts for several destinations.

For further information for respective destinations, be sure to check with the schematic diagram.

Fig. 14

12. EXPLODED VIEW AND PARTS LIST

12.1 CHASSIS(EXCEPT FOR DEH-225/UC AND DEH-223/ES)



NOTE:

● Parts marked by "*"are generally unavailable because they are not in our Master Spare Parts List.

● Parts List(DEH-59/UC)

Mark No.	Description	Part No.	Mark No.		Part No.
1	Screw	BSZ26P050FMC	41	••••	
2	Screw	BSZ26P080FMC	42	Heat Sink	CNR1407
3	Screw	BSZ30P050FMC	43	FM/AM Tuner Unit	CWE1417
4	Screw	BSZ30P160FMC	44	Screw	BPZ20P100FZK
5	Cord	CDE4867	45	Button (S,SEEK)	CAC4469
	55.5				
6	Fuse	CEK1136	46	Button (BAND)	CAC4470
7	Cable	CDE4869	47	Button (+)	CAC4471
8	Case	CNB1989	48	Button (SOURCE)	CAC4472
9	Holder	CNC4946	49	Button (EJECT)	CAC4473
10	Holder	CNC6469	50	Button (•,-)	CAC4474
10	noidei	C14C0403	30	button (; ')	0/1044/4
11	Insulator	CNM4522	51	Button (-)	CAC4542
12	Case	CNS3860	52	Button (DETACH)	CAC4547
13	Cap	CNV2680	53	Button (1 2)	CAC4578
14	Tuner Amp Unit	CWM4485	54	Button (3 4)	CAC4579
15	Remote Control Assy	CXA7390	55	Button (5 6)	CAC4580
13	nemote control Assy	CAA7000	00	Batton to of	0, 10, 1000
16	Battery Cover	CNS3383	56	Button (BSM)	CAC4581
17	Detach Grille Assy	CXA8250	57	Cover	CNM4704
18	Panel Assy	CXA8585	58	Spacer	CNM4776
19	Chassis Unit	CXA8229	59	Cover	CNS3694
20	CD Mechanism Module	CXK5001	60	Key Board Unit	CWM4501
20	CD Wicchamsmi Wodalo	C/titour	•	,	
21	Screw	PSB30P060FMC	61	Grille Unit	CXA9112
22	Screw	CBA1284	62	Grille	CNS4043
23	Handle	CNC4947	63	Plate	CNS3732
24	Bush	CNV1009	64	Button	CAC3776
25	Cord	CDE4770	65	Spring	CBH1834
20	30.0	0520			
26	****		66	Spring	CBH1835
27	Clamper	CEF1005	67	Spring	CBH1858
28	Plug(CN601)(2P)	CKM1129	68	Bracket	CNC6135
29	Plug(CN951)(12P)	CKM1225	69	Bracket	CNC6136
30	Plug(CN422)(4P)	CKS1238	70	Cover	CNM4875
30	1109(014-22)(41)		, ,		
31	Connector(CN681)(25P)	CKS2228	· 71	Panel	CNS3695
32	Connector(CN651)(8P)	CKS2884	72	Arm	CNV4358
33	Antenna Jack(CN501)	CKX1006	73	Arm	CNV4359
34	Holder	CNC6132	74	Arm	CNV4437
35	Screw	BPZ26P080FMC	75	Arm	CNV4438
30	301 GAA	DI ZZUF VOUT IVIC	75	Dull	3144,400
36	Screw	BSZ26P120FMC	76	Lens	CNV4479
37	Connector(CN421)	CKS3357	77	Screw	PMS20P030FZK
38	Bracket	CNC6130	78	LCD	CAW1329
	Holder	CNC6131	79	Holder	CNC6430
39	Holder	CINCOISI	80	Rubber	CNV4354
40	*****		80	MUDDEI	CI4 V +334

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	81	Lens	CNV4355		91	Resistor	RS1/2P102JL
	82	Connector	CNV4449		92	Cap	CNS1472
	83	Spacer	CNM4740		93	Spring	CBH-865
	84	Connector(CN901)(8P)	CKS2883		94	Cord	CDE4772
	85	Holder	CNC6555		95	Panel	CNS3581
	86	IC(IC551)	PAL003A		96	Spacer	CNM4871
	87	Transistor(Q981,991)	2SD2396	*	97	Spacer	CNM4888
	88	IC(IC902)	RPM-678CBR			•	
	89	Insulator	CNM4811				
	90	Cushion	CNM4870				

■ The DEH-52/UC, DEH-525/UC, DEH-523/ES, DEH-49/UC, DEH-42/UC, DEH-425/UC, and DEH-323/ES Parts Lists enumerate the parts which differ from those enumerated in the DEH-59/UC Parts List only. The parts other than those enumerated in the former are identical with those in the latter, to which you are requested to refer, accordingly. The DEH-59/UC Parts List is given on page 53.

			59/UC	52/UC	525/UC	523/ES	49/UC	42/UC	425/UC	323/ES
/lark	No.	Description	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
	12	Case	CNS3860	CNS3860	CNS3860	CNS3860	CNS3860	••••	CNS3860	CNS3860
	13	Сар	CNV2680	CNV2680	CNV2680	CNV2680	CNV2680	****	****	••••
	14	Tuner Amp Unit	CWM4485	CWM4487	CWM4486	CWM4488	CWM4489	CWM4491	CWM4490	CWM449
	15	Remote Control Assy	CXA7390	CXA7390	CXA7390	CXA7390	••••	••••	••••	•••••
	16	Battery Cover	CNS3383	CNS3383	CNS3383	CNS3383	••••	••••	••••	
	17	Detach Grille Assy	CXA8250	CXA8252	CXA8251	CXA8253	CXA8254	CXA8256	CXA8255	CXA8259
	18	Panel Assy	CXA8585	CXA8586	CXA8586	CXA8585	CXA8586	CXA8586	CXA8586	CXA8586
	19	Chassis Unit	CXA8229	CXA8231	CXA8230	CXA8229	CXA8230	CXA8231	CXA8231	CXA823
	25	Cord	CDE4770	••••	CDE4770	CDE4770	CDE 4770			
	26	Cord	90000	••••	••••	CDE4771	••••	•••••	••••	*****
	27	Clamper	CEF1005	•••••	CEF1005	CEF1005	CEF1005	••••		
	28	Plug(CN601)	CKM1129	••••	****	CKM1129	••••	••••	****	
	30	Plug(CN422)	CKS1238	••••	CKS1238	CKS1238	CKS1238	••••	••••	
	60	Key Board Unit	CWM4501	CWM4501	CWM4501	CWM4501	CWM4502	CWM4502	CWM4502	CWM45
	61	Grille Unit	CXA9112	CXA8284	CXA8283	CXA9115	CXA8286	CXA8288	CXA8287	CXA829
	62	Grille	CNS4043	CNS3718	CNS3718	CNS4043	CNS3718	CNS3718	CNS3718	CNS371
	63	Plate	CNS3732	CNS3734	CNS3733	CNS3735	CNS3736	CNS3738	CNS3737	CNS374
	76	Lens	CNV4479	••••	*****	CNV4479	••••	••••	••••	
	78	LCD	CAW1329	CAW1329	CAW1329	CAW1329	CAW1330	CAW1330	CAW1330	CAW133
	83	Spacer	CNM4740	CNM4740	CNM4740	CNM4740	*****	•••••	••••	٠٠٠٠٠
	88	IC(IC902)	PRM-678CBF	PRM-678CBR	PRM-678CBR	PRM-678CBR	••••	•••••	••••	
	94	Cord	CDE4772	••••	****	****	••••	••••	•••••	

12.2 CHASSIS(DEH-225/UC AND DEH-223/ES)

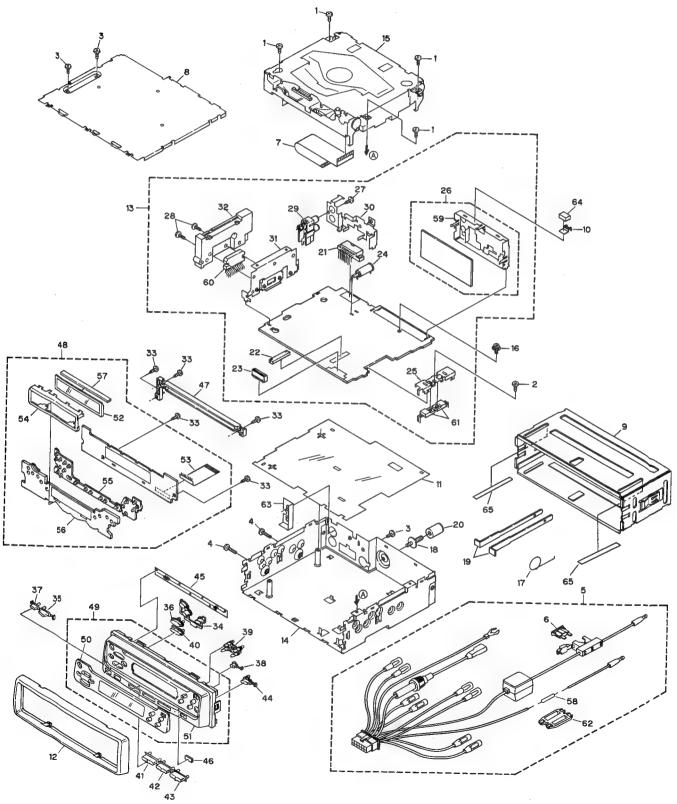
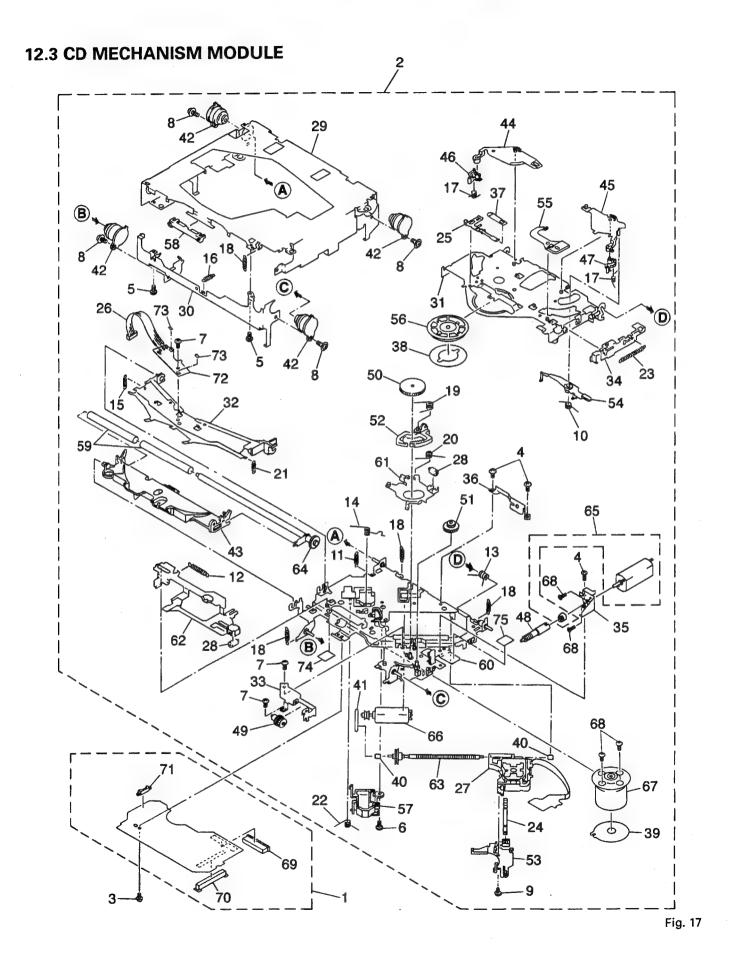


Fig. 16

● Parts List

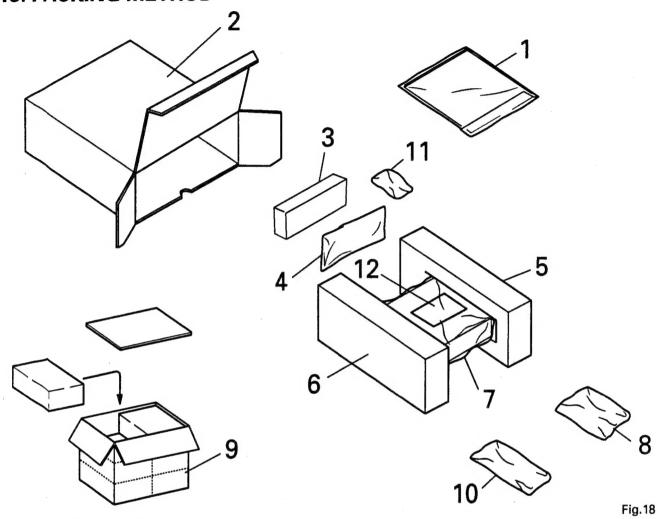
Mark N	o. Description	Part No.	Mark		Description	Part No.
	1 Screw	BSZ26P050FMC		35	Button(BAND)	CAC4470
	2 Screw	BSZ26P080FMC		36	Button(+)	CAC4471
	3 Screw	BSZ30P050FMC		37	Button(SOURCE)	CAC4472
	4 Screw	BSZ30P160FMC		38	Button(EJECT)	CAC4473
	5 Cord	CDE4867		39	Button(·,-)	CAC4474
	5 Fuse	CEK1136		40	Button(-)	CAC4542
	7 Cable	CDE4869		41	Button(12)	CAC4578
	8 Case	CNB1989		42	Button(3 4)	CAC4579
	9 Holder	CNC4946		43	Button(5 6)	CAC4580
1		CNC6469		44	Button(BSM)	CAC4581
1	1 Insulator	CNM4522		45	Cover	CNM4704
1		CNS3861		46	Spacer	CNM4776
1.		CWM4495		47	Holder	CNV4356
	Tuner Amp Unit(DEH-223)	CWM4497		48	Key Board Unit	CWM4505
1		CXA8529		49	Grille Unit(DEH-225)	CXA8292
1	5 CD Mechanism Module	CXK5001			Grille Unit(DEH-223)	CXA8294
1		PSB30P060FMC		50	Plate(DEH-225)	CNS3741
1		CBH-865			Plate(DEH-223)	CNS3743
1		CBA1284		51	Grille	CNS3859
1		CNC4947		52	LCD	CAW1330
2	0 Bush	CNV1009		53	Cable	CDE4868
2		CKM1225		54	Holder	CNC6430
2		CKS2228		55	Rubber	CNV4354
2		CKS3380		56	Lens	CNV4355
2		CKX1006		57	Connector	CNV4449
2	5 Holder	CNC6132		58	Resistor	RS1/2P1 02JL
2		CWE1417		59	Holder	CNC6429
2		BPZ26P080FMC		60	IC(IC551)	PAL003A
2		BSZ26P120FMC		61	Transistor(Q981,991)	2SD23)6
2		CKS3357		62	Сар	CNS1472
3	0 Bracket	CNC6130		63	Insulator	CNM481 1
3		CNC6131		64	Cushion	CNM4387
3		CNR1407	*	65	Spacer	CNM4888
3		BPZ20P100FMC			•	
3		CAC4469				



Parts List

Mark	No.	Description	Part No.	Mark No.	Description	Part No.
		Control Unit	CWX1889	46	Arm	CNV4124
		CD Mechanism Unit	CXA8870	47	Arm	CNV4125
		Screw	PMS26P035FMC	48	Gear	CNV4128
		Screw	BMZ20P030FMC	49	Gear	CNV4129
		Screw	BSZ20P040FMC		. Gear	CNV4130
	6	Screw(M2×3)	CBA1077	51	Gear	CNV4131
		Screw(M2×2)	CBA1250		Arm	CNV4136
		Screw(M2×5)	CBA1296		Holder	CNV4663
		Screw(M2×3.85)	CBA1362		Arm	CNV4138
		Spring	CBH1916		Arm	CNV4139
	11	Spring	CBH1724	56	Clamper	CNV4140
		Spring	CBH1727		Holder	CNV4664
		Spring	CBH1727 CBH1729		Guide	CNV4484
		Spring			Roller	CNV4509
		Spring	CBH1730		Chassis Unit	CXA8561
	15	Spring	CBH1731	00	Chassis Offic	CAABSO
	16	Spring	CBH1732		Arm Unit	CXA8565
	17	Spring	CBH1736		Lever Unit	CXA8567
	18	Spring	CBH1745		Screw Unit	CXA8699
	19	Spring	CBH1832		Gear Unit	CXA8701
		Spring	CBH1833	65	Load Motor Unit(M3)	CXA8702
	21	Spring	CBH1848	66	CRG Motor Unit(M2)	CXA8986
		Spring	CBH1849	67	Motor Unit(M1)	CXA9100
		Spring	CBH1863		Screw	JFZ20P025FMC
		Spring	CBL1214		Connector(CN101)	CKS 1953
		Spring	CBL1269		Connector(CN701)	CKS2774
	26	Connector(CN1)	CDE4576	71	Connector(CN801)	CKS2196
		PU Unit	CGY1070		Gathering P.C.Board	CNX2445
		Roller	CLA2627		Photo-transistor(Q1, 2)	CPT-230\$-X
			CNC5796		Sheet	CNM4873
		Frame Frame	CNC5797		Cushion	CNM3917
			CNICETOO			
		Arm	CNC5799			
*		Arm	CNC5801	•		
		Bracket	CNC5871			
		Lever	CNC6054			
	35	Bracket	CNC6056			
*	36	Bracket	CNC6376			
	37	Spacer	CNM3315			
	38	Sheet	CNM4849			
	39	P.C.Board	CNP4230			
	40	Bearing	CNR1415			
	41	Belt	CNT1071			
		Damper	CNV3974			
		Arm	CNV4120			
		Arm	CNV4122			
		Arm	CNV4123			

13. PACKING METHOD



	Parts	Liet	DEL	J.EQ	/LICY
•	Parts	LIST	IDEL	7-33	100

Par	ts Li	ist(DEH-59/UC)					*: Non Spare Part
Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	1-1	Owner's Manual	CRD1946		6	Protector	CHP1768
	1-2	Installation Manual	CRD1983		7	Polyethylene Bag	CEG1173
*	1-3	Label	CRW1343		8	Accessory Assy	CEA1918
*	1-4	Warranty Card	CRY1070		9	Contain Box	CHL2848
	1-5	*****			10	Accessory Assy	CEA1473
	1-6	Polyethylene Bag	CEG1116		11	Remote Control Assy	CXA7390
	2	Carton	CHG2848	*	12	Caution Card	CRP1145
	3	Case	CNS3860				
	4	Cord	CDE4867				
	5	Protector	CHP1769				

A CANTIEL 2 IAIGITUGI		
Model	Part No.	Language
DEH-59/UC	CRD1946	English, French
DEH-52/UC, DEH525/UC	CRD1948	English, French, Spanish
DEH-523/ES	CRD1951	English, French, Spanish, Arabic
DEH-49/UC	CRD1947	English, French
DEH-42/UC, DEH-425/UC	CRD1949	English, French, Spanish
DEH-323/ES	CRD1952	English, French, Spanish, Arabic
DEH-225/UC	CRD1950	English, French, Spanish
DEH-223/ES	CRD1953	English, French, Spanish, Arabic

-				
	insta	llation	Mar	ıuai

Model	Part No.	Language
DEH-59/UC	CRD1983	English, French
DEH-52/UC, DEH-42/UC, DEH-425/UC	CRD1987	English, French, Spanish
DEH-225/UC		
DEH-525/UC	CRD1984	English, French, Spanish
DEH-523/ES	CRD1985	English, French, Spanish, Arabic
DEH-49/UC	CRD1986	English, French
DEH-323/ES, DEH-223/ES	CRD1988	English, French, Spanish, Arabic

Accessory Assy

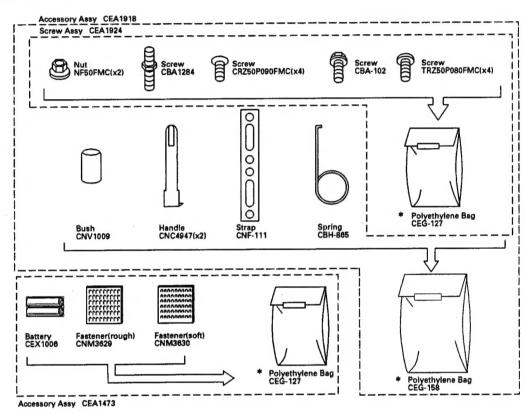


Fig. 19

■ The DEH-52/UC, DEH-525/UC, DEH-523/ES, DEH-49/UC, DEH-42/UC, DEH-425/UC, DEH-323/ES, DEH-225/UC and DEH-223/ES Parts Lists enumerate the parts which differ from those enumerated in the DEH-59/UC Parts List only. The parts other than those enumerated in the former are identical with those in the latter, to which you are requested to refer, accordingly. The DEH-59/UC Parts List is given on page 60.

			DEH-59/UC	DEH-52/UC	DEH-525/UC	DEH-523/ES	DEH-49/UC	DEH-42/UC	DEH-425/UC
Mark	No.	Description	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
	1-1-	Owner's Manual	CRD1946	CRD1948	CRD1948	CRD1951	CRD1947	CRD1949	CRD1949
	1-2	Installation Manual	CRD1983	CRD1987	CRD1984	CRD1985	CRD1986	CRD 1987	CRD1987
*	1-3	Label	CRW1343	••••	••••	*****	••••	••••	*****
*	1-4	Warranty Card	CRY1070	****	••••	****	(CRY1070)	••••	••••
*	1-5	Card	****	ARY1048	ARY1048	****	*****	ARY1048	ARY1048
	2	Carton	CHG2848	CHG2847	CHG2846	CHG2845	CHG2855	CHG2854	CHG2853
	7	Polyethylene Bag	CEG1173	CEG1173	CEG1173	CEG-162	CEG1173	CEG1173	CEG1173
	8	Accessory Assy	CEA1918	CEA1918	CEA1918	CEA2002	CEA1918	CEA1918	CEA1918
	9	Contain Box	CHL2848	CHL2847	CHL2846	CHL2845	CHL2855	CHL2854	CHL2853
	10	Accessory Assy	CEA1473	CEA1473	CEA1473	CEA1473	****	••••	••••
	11	Remote Control Assy	CXA7390	CXA7390	CXA7390	CXA7390	•••••	••••	••••

			DEH-59/UC	DEH-323/ES	DEH-225/UC	DEH-223/ES
Mark	No.	Description	Part No.	Part No.	Part No.	Part No.
	1-1	Owner's Manual	CRD1946	CRD1952	CRD1950	CRD1953
	1-2	Installation Manual	CRD1983	CRD1988	CRD1987	CRD1988
*	1-3	Label	CRW1343	****	••••	••••
*	1-4	Warranty Card	CRY1070	•••••	••••	••••
*	1-5	Card	•••••	*****	ARY1048	••••
	2	Carton	CHG2848	CHG2852	CHG2856	CHG2857
	7	Polyethylene Bag	CEG1173	CEG-162	CEG1173	CEG-162
	8	Accessory Assy	CEA1918	CEA2002	CEA1918	CEA2002
	9	Contain Box	CHL2848	CHL2852	CHL2856	CHL2857
-	10	Accessory Assy	CEA1473	••••	••••	••••
			,		*	
	11	Remote Control Assy	CXA7390	•••••	••••	••••